

APPENDIX A

SITE CONDITION REPORT

RSK Ref. 50369/L101.aj

Palm Paper Ltd
former British Sugar Site,
Poplar Avenue,
KING'S LYNN,
Norfolk
PE34 3AL

20 April 2010

fao John Mason

**LYNN PM7 SADDLEBOW PAPER MILL:
LAND CONDITION REPORT**

Dear Sirs,

RSK STATS Geoconsult Ltd (RSK) were commissioned by PCU / Palm Paper Ltd to compile a Land Condition Report to assist them to fulfil the requirements of the IPPC Permitting regulations on Lynn PM7 Saddlebow Paper Mill. In particular, Palm Paper having submitted a SPMP to the Environment Agency (EA), the EA requested a separate 'baseline report' of land condition at permit issue be provided.

1. INTRODUCTION:

Palm Paper have redeveloped the former Morston Sugar Site at Poplar Avenue, Kings Lynn into the Lynn PM7 paper mill. As part of the IPPC permitting process, a land condition report is necessary to establish the existing ground conditions at the facility when the site permit became active (2009). This establishes baseline conditions prior to the operation of the site, for future comparison to the ground conditions present in the future when the permit may be surrendered.

Four phases of site investigation were undertaken prior to the redevelopment of the site. The four phases of investigation (by several firms) were detailed in the following reports:

1. Land at Saddlebow Industrial Estate, Poplar Avenue, King's Lynn. Combined Phase I Desk Study & Phase II Preliminary Exploratory Investigation, for Morston Sugar Limited. Geodyne Ltd Report Ref. 25042 dated 24 June 2005;
2. Site Investigation Lynn PM7, Morson Sugar Site, Poplar Ave, King's Lynn for Palm Paper Ltd. RSK (with Evans & Langford) Report Ref. 50336-1(01) dated June 2007;
3. Lynn PM7 – Site Investigation for Water Treatment Works Area. Evans & Langford LLP Report Ref. D7912C/CPS dated 31 March 2008; and

4. Factual Site Investigation Report, Palm Paper, Kings Lynn (for intake/discharge pipelines). Harrison Geotechnical Engineering Report Ref. GN11828Fact dated April 2008.

This report draws on information which, although already presented in the above four reports, is pertinent for the SPMP extent of the permitted site only. Therefore, this report presents selected extracts of data from the above reports, filtering out any data that is not within the permitted site's boundary; the extents of the permitted site are provided on Figure 1. All information in these reports is pre-construction, i.e. before land was re-contoured for the mill/ETW construction. Following the initial investigations by RSK (on the former Sugar factory site *only*), a second phase of RSK investigation in early 2008 was combined with contamination remediation work in specific zones. Where relevant to this report (i.e. in pits dug in zones where no excavation / remediation was subsequently carried out), these second phase investigations were reported twice, alongside the remediation actions in the second reference:

5. Kings Lynn PM7 Site – Further Site Investigation. RSK Geoconsult Letter Report Ref. 50369/Lo5/rdc dated 19th August 2008
6. PM7 Paper Mill, Ex-Morston Sugar Plant, Former Factory Site, Kings Lynn, Norfolk' 'Remediation Validation Report', RSK Report Ref. 50369-R2(01) dated November 2008

The comments given in this report and the opinions expressed are based on the ground conditions reported during the provided previous phases of site work. However, there may be conditions pertaining to the site that have not been disclosed by these investigations and therefore could not be taken into account.

2. SCOPE OF THIS LAND CONDITION REPORT:

This land condition report is drafted to address the following points:

- Summarise the environmental setting of the site;
- Summarise the historical land uses with respect to potential pollution history; and
- provide baseline data on chemical ground conditions at permit issue.

No information is included herein on the specific land remediation works carried out in certain 'zones' beneath the Mill footprint pre-construction; this is to be found in Report 50369-R2(01) – ref.6 above.

3. ENVIRONMENTAL SETTING

A comprehensive summary of the environmental setting of the site has been provided in the 'Site Protection & Monitoring Programme for Palm Paper UK PM7 Plant – Kings Lynn Doc. Ref U-E 01 0001 dated May 2009' Section 6.2 Conceptual Site Model, but some further comments follow below.

3.1 Geology, Hydrogeology and Surface Water

A detailed review of the geology, hydrogeology and surrounding surface waters is provided in Sections 6.2.1 and 6.2.2 of the Site Protection & Monitoring Programme. The deeper confined groundwater found in granular deposits at the base of the Alluvium was sampled and analysed during the 2007 investigation (Report No. 2 above). The laboratory testing results found it to be unaffected by the previous uses at the sugar factory site (see section 9.13), agreed by the EA groundwater consultee. It is not known if any of the Evans & Langford or Geodyne boreholes remain in place and useable, post-construction of the mill.

3.2 Pollution History

A detailed review of the site history and potentially contaminative previous uses of the site is provided in Sections 6.2.3 and 6.2.4 of the Site Protection & Monitoring Programme. The second & third paragraphs in the SPMP refer chiefly to contamination found in areas outwith this Permit boundary, e.g. the 'timber treatment' area, and the small industrial estate on the eastern boundary. Much of the lagoon area to the north & east of the Mill, and upon which it was partly built, appeared to consist of topsoil washing residues (chiefly 'inert' soil), but there were sections (in the north) where office & work debris was tipped.

4. GROUND CONDITIONS BASELINE DATA

The baseline chemical analysis data with respect to ground conditions has been extracted from the four previously issued ground investigation reports and the later 'validation' report, as listed in Section 1. The relevant locations where baseline data has been selected/extracted for this Report, are shown in Figure 2. There is a sector of the Permit site in the eastern, upper central zone where there is a dearth of chemical testing data to be found in the site investigations by GeoDyne & Evans/Langford, being chiefly for geotechnical purposes in that respect; Geodyne pit TP7 lies just outside the permit line and could be deemed relevant if this area requires 'coverage'; test data for (G)TP7 can be found in Appendix A herein.

Tables 1 to 5 detail the chosen baseline data points, the justification for the selection of the data point and the depth and type of strata the baseline data refers to, and the chemical testing undertaking at that location. A separate table is provided for each of the original data sets (*Table 1 - Geodyne* Ref. 25042 dated June 2005; *Table 2 - RSK Geoconsult* Ref. 50336-1(01) dated June 2007; *Table 3 - Evans & Langford* Ref. D7912C/CPS dated 31 March 2008; *Table 4 - Harrison Geotechnical* Ref. GN11828Fact dated April 2008; and *Table 5 - RSK Geoconsult* Letter Ref. 50369/L05 dated August 2008).

Copies of the original MCERTS accredited laboratory analysis data for each of these locations is provided in Appendices A to E. It should be noted that, in Appendices A to E, due to the function of multiple location testing results being provided on each sheet of the original laboratory test certificates, a test certificate may have results that are not pertinent to the permitted site. Any such results have been clearly crossed through, indicating their non-relevance to the permitted site conditions.

The permitted site has been subjected to remedial works (pre-construction of the Mill) to mitigate risks posed by soil contamination in specific locations, that was identified during the various phases of site

investigation. Details of the extent of remedial work were presented within a formal Remedial Strategy, which was approved during Planning and is summarised within ref. 6 = RSK Report Ref. 50369-R2(01).

Zones A to H were deemed to be potential remediation zones within the former factory confines; of these, zones F, G, H are outwith the SPMP boundary. Zones A to E on the site in question were investigated / tested further, with the result that (see Section 5.2 in the report) only zones A and D required remedial action, but an additional zone Bi was identified as contaminated. Section 7.2 of the same report records that soils from areas A, Bi, and D were subject to ex-situ bioremediation, with the treated soils not being returned to the 'voids' left in the main site area, but instead being re-used elsewhere around the site (outwith this permit boundary).

The excavations that occurred in zones A, Bi, and D were backfilled with crushed concrete. Therefore, as the excavations were validated 'clean' on their base and sides (see Ref. 6 for test data) and were infilled with clean crushed material, samples in these remediated areas have not been chosen for inclusion as baseline data points. However, two analysed soil samples (TPRSK23 and TPRSKE3) from "un-remediated" zones C and E have been chosen to be baseline data points, along with other sample points from within areas not requiring remediation (second phase investigation trial pits, as in Ref. 5).

If you have any queries regarding the above please contact the undersigned.

Yours sincerely,

On behalf of RSK STATS Geoconsult Ltd

A handwritten signature in black ink, appearing to read 'A. Jordan'.

Anthony Jordan
Senior Environmental Geologist

Mike Summersgill, C.Eng, SiLC
Associate Director

cc. PCU, Guido Jost

cc. EA Anglian, Jennifer Morrison

Figure1: IPPC Application Site Boundary

Figure 2: Locations of Baseline Data Points

Encl.

Table 1: Summary of baseline location/test data derived from Geodyne Report Ref. 25042

Table 2: Summary of baseline data derived from RSK Geoconsult Report Ref. 50336-1(01)

Table 3: Summary of baseline data derived from RSK Evans & Langford Report Ref. D7912C/CPS

Table 4: Summary of baseline data derived from Harrison Geotechnical Engineering report GN11828

Table 5: Summary of baseline data derived from RSK Geoconsult Report Ref. 50369-L05

Appendices A to E – (extracted) MCERTS test Certificates, following Tables 1 to 5 respectively.

Tables

Table 1: Summary of baseline data derived from Geodyne Report Ref. 25042 from June 2005

Bore/Pit No. & Sample Depth	Rationale for inclusion as baseline data point	Analytes
BH(G)3 @ 1.5m	Boundary condition (made ground) in old lagoon area	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, TOC, speciated PAH
BH(G)4 @ 0.8m	Boundary condition (shallow made ground) in old lagoon area	BTEX, speciated TPH by CWG
BH(G)4 @ 3.8m	Boundary condition (deeper made ground) below floor level of Mill (approx. 2m b.OGL)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, TOC, speciated PAH
BH(G)5 @ 0.0-1.0m	Boundary condition in made ground in ETW area (extensive earthworks dig-out here)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, TOC, speciated PAH
TP(G)6 @ 2.5m	Made ground in area of an old lagoon around the reduced level of Reel Store floor (post-cut)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), speciated PAH

Table 2: Summary of baseline data derived from RSK Geoconsult Report Ref. 50336-1(01) June 2007 (window samples by RSK; boreholes by Evans & Langford, but testing specified by RSK)

Borehole No. & Sample Depth	Rationale for inclusion as baseline data point	Analytes
BH2 @ 0.9m	Boundary condition (Made ground / Natural interface) in unchanged area (under roadway)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, speciated TPH by CWG,
BH4 @ 1.0m	(Made ground) beneath / near old fuel tanks, next to remediation zone D	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, speciated TPH by CWG, speciated PAH
BH17 @ 1.3m	Infilled lagoon / spoil area at northern boundary (odorous sample of made ground)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, speciated TPH by CWG, speciated PAH, exchangeable ammonium as N
WS24 @ 0.6m	Boundary condition (Made ground) near old gate house (edge of remediation zone H)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, speciated TPH by CWG, speciated PAH
WS59 @ 1.4m	In natural ground on edge of former factory site	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, speciated TPH by CWG, speciated PAH

Table 3: Summary of baseline data derived from RSK Evans & Langford Report Ref. D7912C

Borehole No. & Sample Depth	Rationale for inclusion as baseline data point	Analytes
BH23 @ 1.00m	Made ground in infilled former lagoon (ex-Singh) 'recent' deposition – probably removed during ETW construction	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total cyanide, free cyanide, banded TPH, speciated PAH
BH23 @ 3.00m	Made ground in infilled former lagoon (ex-Singh) 'recent' deposition - may be around final invert level of ETW tanks	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total cyanide, free cyanide, banded TPH, speciated PAH
BH23 @ 5.00m	Made ground in infilled former lagoon (earlier deposition) – probably at a level still beneath ETW construction & dig-out zone	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total cyanide, free cyanide, banded TPH, speciated PAH

Table 4: Summary of baseline data derived from Harrison Geotechnical report Ref. GN11828Fact

Borehole No. & Sample Depth	Rationale for inclusion as baseline data point	Analytes
BH P1 @ 0.5m	Natural ground at intake structure	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
BH P2 @ 0.5/1.5m	Natural ground at outfall / bank	Metals 9 (As Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
BH P3 @ 0.5m	Made ground (flood defence) at flood wall	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
WS P2 @ 0.5m	Natural ground at corner near power station	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
WS P7 @ 0.5m	Natural ground along pipeline route / flood wall	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
WS P10 @ 1.0m	Natural ground along pipeline closer to ETW site	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.

Table 5: Summary of baseline data derived from RSK Geoconsult 2nd SI Report Ref. 50369/L05

Pit Number & Sample Depth)	Rationale for inclusion as baseline data point	Analytes
TP RSKE3 @ 1.0m	Natural ground near (non) remediation zone E	MTBE, banded VPH/EPH, speciated PAH
TP RSK16 @ 0.9m	Clay under former Singh warehouse slab	Metals 9 (As Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, speciated TPH, speciated PAH
TP RSK21 @ 0.4m	Made ground on riverside boundary	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH
TP RSK23 @ 1.0m	Top of natural ground beneath concrete, near (non) remedial zone C	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK28 @ 0.3m – 0.4m	Ashy gravels beneath floor slab	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH, VOCs + leachable metals & organics
TP RSK39 @ 0.3m	Made ground / natural ground interface at Riverside	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK44 @ 1.9m	Natural ground below former tank slab	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK45 @ 1.8m	Made ground / natural ground interface under main slab	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK50 @ 1.5m	Made ground beneath entrance road (near former weighbridge)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, MTBE, banded EPH/VPH + leachable metals & organics

Figures

Figure1: IPPC Application Site Boundary

Figure 2: Locations of Baseline Data Points

Appendix A

**Appendix A: Baseline MCERT accredited laboratory analysis data from:
Geodyne Report Ref. 25042 dated June 2005**

Appendix B:

**Baseline MCERT accredited laboratory analysis data from: RSK
Geoconsult Report Ref. 50336-1(01) dated June 2007**

Appendix C:

**Baseline MCERT accredited laboratory analysis data from: RSK Evans &
Langford Report Ref. D7912C/CPS dated 31 March 2008**

Appendix D:

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Appendix E:

**Baseline MCERT accredited laboratory analysis data from: RSK
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RSK Ref. 50369/L101.aj

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23 April 2010

fao John Mason

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1. INTRODUCTION:

Palm Paper have redeveloped the former Morston Sugar Site at Poplar Avenue, Kings Lynn into the Lynn PM7 paper mill. As part of the IPPC permitting process, a land condition report is necessary to establish the existing ground conditions at the facility when the site permit became active (2009). This establishes baseline conditions prior to the operation of the site, for future comparison to the ground conditions present in the future when the permit may be surrendered.

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investigation. Details of the extent of remedial work were presented within a formal Remedial Strategy, which was approved during Planning and is summarised within ref. 6 = RSK Report Ref. 50369-R2(01).

Zones A to H were deemed to be potential remediation zones within the former factory confines; of these, zones F, G, H are outwith the SPMP boundary. Zones A to E on the site in question were investigated / tested further, with the result that (see Section 5.2 in the report ref. 6) only zones A and D required remedial action, but an additional zone Bi was identified as contaminated. Section 7.2 of the same report records that soils from areas A, Bi, and D were subject to ex-situ bioremediation, with the treated soils not being returned to the 'voids' left in the main site area, but instead being re-used elsewhere around the site (outwith this permit boundary).

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If you have any queries regarding the above please contact the undersigned.

Yours sincerely,

On behalf of RSK STATS Geoconsult Ltd

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Anthony Jordan

Senior Environmental Geologist

A handwritten signature in black ink, appearing to read 'Mike Summersgill'.

Mike Summersgill, C.Eng, SiLC

Associate Director

cc. PCU, Guido Jost

cc. Palm, Anthony Dollinger

cc. EA Anglian, Jennifer Morrison & Roy Mantas

Figure 1: IPPC Application Site Boundary

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BH(G)4 @ 0.8m	Boundary condition (shallow made ground) in old lagoon area	BTEX, speciated TPH by CWG
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BH(G)5 @ 0.0-1.0m	Boundary condition in made ground in ETW area (extensive earthworks dig-out here)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, TOC, speciated PAH
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WS59 @ 1.4m	In natural ground on edge of former factory site	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, speciated TPH by CWG, speciated PAH

Table 3: Summary of baseline data derived from RSK Evans & Langford Report Ref. D7912C

Borehole No. & Sample Depth	Rationale for inclusion as baseline data point	Analytes
BH23 @ 1.00m	Made ground in infilled former lagoon (ex-Singh) 'recent' deposition – probably removed during ETW construction	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total cyanide, free cyanide, banded TPH, speciated PAH
BH23 @ 3.00m	Made ground in infilled former lagoon (ex-Singh) 'recent' deposition - may be around final invert level of ETW tanks	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total cyanide, free cyanide, banded TPH, speciated PAH
BH23 @ 5.00m	Made ground in infilled former lagoon (earlier deposition) – probably at a level still beneath ETW construction & dig-out zone	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total cyanide, free cyanide, banded TPH, speciated PAH

Table 4: Summary of baseline data derived from Harrison Geotechnical report Ref. GN11828Fact

Borehole No. & Sample Depth	Rationale for inclusion as baseline data point	Analytes
BH P1 @ 0.5m	Natural ground at intake structure	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
BH P2 @ 0.5/1.5m	Natural ground at outfall / bank	Metals 9 (As Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
BH P3 @ 0.5m	Made ground (flood defence) at flood wall	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
WS P2 @ 0.5m	Natural ground at corner near power station	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
WS P7 @ 0.5m	Natural ground along pipeline route / flood wall	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.
WS P10 @ 1.0m	Natural ground along pipeline closer to ETW site	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, monohydric phenols, total & free cyanide, spec. PAH, banded TPH.

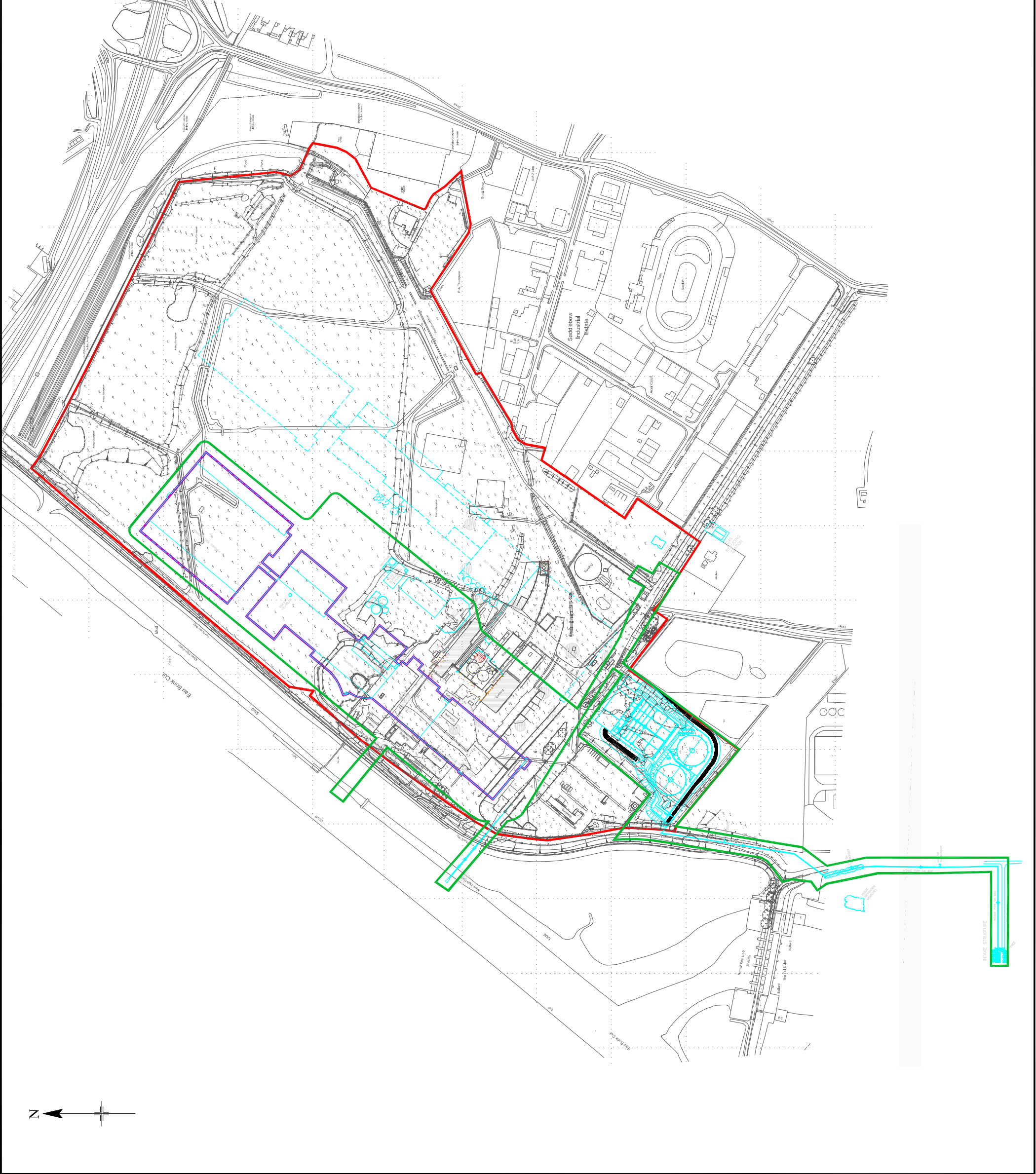
Table 5: Summary of baseline data derived from RSK Geoconsult 2nd SI Report Ref. 50369/L05

Pit Number & Sample Depth)	Rationale for inclusion as baseline data point	Analytes
TP RSKE3 @ 1.0m	Natural ground near (non) remediation zone E	MTBE, banded VPH/EPH, speciated PAH
TP RSK16 @ 0.9m	Clay under former Singh warehouse slab	Metals 9 (As Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, speciated TPH, speciated PAH
TP RSK21 @ 0.4m	Made ground on riverside boundary	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH
TP RSK23 @ 1.0m	Top of natural ground beneath concrete, near (non) remedial zone C	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK28 @ 0.3m – 0.4m	Ashy gravels beneath floor slab	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH, VOCs + leachable metals & organics
TP RSK39 @ 0.3m	Made ground / natural ground interface at Riverside	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK44 @ 1.9m	Natural ground below former tank slab	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK45 @ 1.8m	Made ground / natural ground interface under main slab	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, BTEX, banded EPH/VPH, speciated PAH
TP RSK50 @ 1.5m	Made ground beneath entrance road (near former weighbridge)	Metals 9 (As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn), water soluble SO ₄ , pH, MTBE, banded EPH/VPH + leachable metals & organics

Figures

Figure1: IPPC Application Site Boundary

Figure 2: Locations of Baseline Data Points



LEGEND

- Location of New Paper Processing Plant
- Boundary of Palm Paper Property
- IPPC Application Area

P1	19.04.10	FIRST ISSUE	MDW	AJ	AJ
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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18 Frogmore Road
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HP3 9RT
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Client
PALM PAPER LIMITED

Project Title
**KING'S LYNN PM7,
LAND CONDITION REPORT**

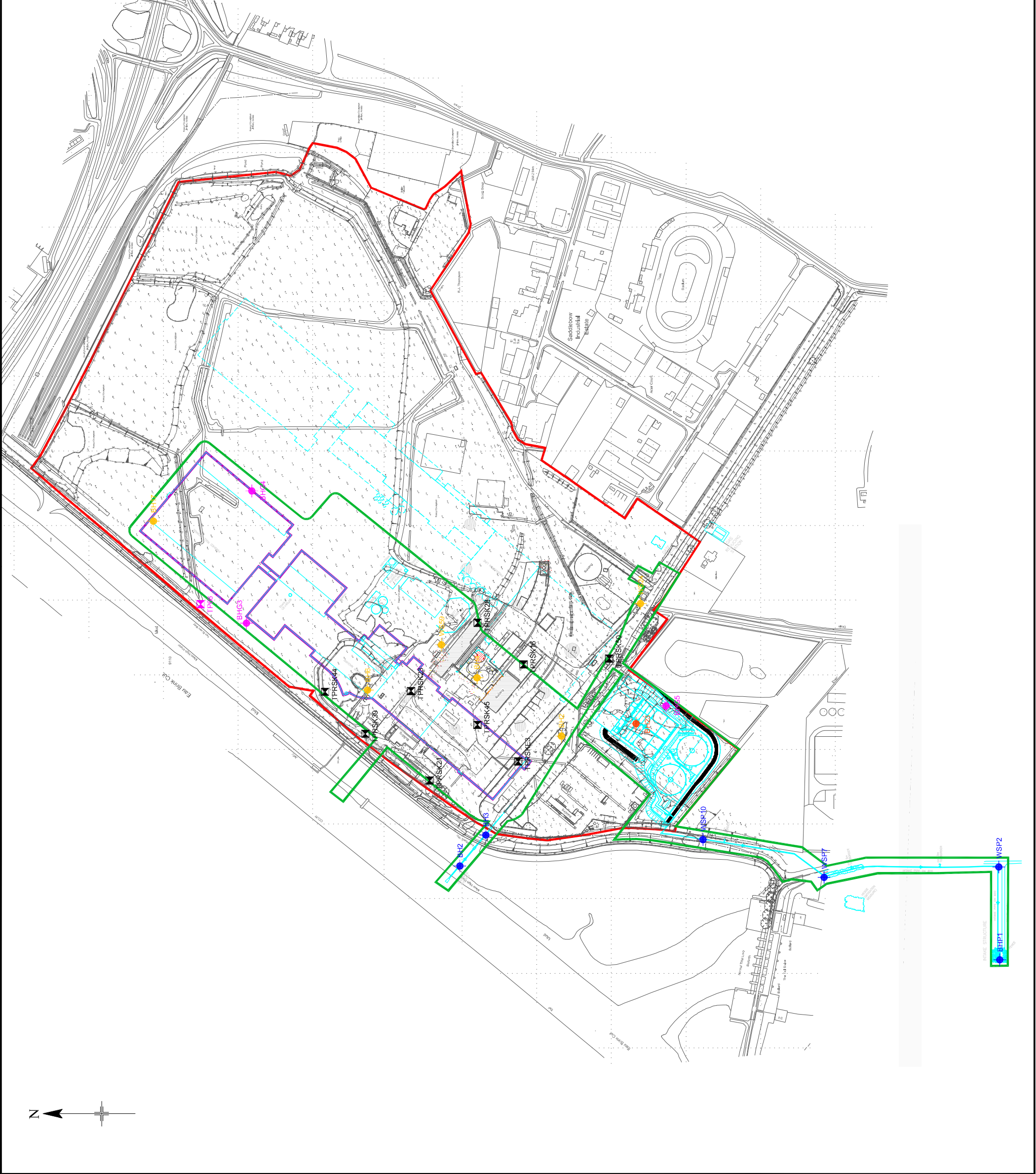
Drawing Title
**KING'S LYNN PM7,
IPPC APPLICATION AREA**

Drawn	Date	Checked	Date	Approved	Date
MDW	19.04.10	AJ	19.04.10	AJ	19.04.10
Scale	Orig Size	Dimensions			
1:5000	A3	m			

Project No.	Drawing File
50369 LR101	50369 (LR101).dwg

Drawing No.	Rev.
FIGURE 1	P1





LEGEND

- Location of New Paper Processing Plant
- Boundary of Palm Paper Property
- IPPC Application Area

Baseline Data Points From:

- Geodyne report ref: 25042 - dated 24 June 2005
- RSK Geoconsult report ref: 50336-1(01) - dated June 2007
- Evans & Langford report ref: 07912/C/CPS - dated 31 March 2008
- Harrison Geotechnical Engineering report ref: GN11828Fact - dated April 2008
- RSK Geoconsult report ref: 50369-R2(01) - dated November 2008

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P1	19.04.10	FIRST ISSUE	MDW	AJ	AJ



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Client
PALM PAPER LIMITED

Project Title
**KING'S LYNN PM7,
LAND CONDITION REPORT**

Drawing Title
**KING'S LYNN PM7,
LOCATIONS OF BASELINE
DATA POINTS**

Drawn	Date	Checked	Date	Approved	Date
MDW	19.04.10	AJ	19.04.10	AJ	19.04.10
Scale	Orig Size	Dimensions			
1:5000	A3	m			

Project No.	Drawing File
50369 LR101	50369 (LR101).dwg

Drawing No.	Rev.
FIGURE 2	P1



Appendix A

**Appendix A: Baseline MCERT accredited laboratory analysis data from:
Geodyne Report Ref. 25042 dated June 2005**

Validated

☒

ALcontrol Geochem Analytical Services

Table Of Results

^N ISO 17025 accredited

^M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Job Number: 05/05604/02/01

Matrix: SOLID

Client: GeoDyne Limited

Location: NOT SPECIFIED

Client Ref. No.: 25042

Client Contact: Clare Clements

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

Validated☒

ALcontrol Geochem Analytical Services

[#] ISO 17025 accredited

^M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Job Number: 05/06025/02/01

Client: GeoDyne Limited

Client Ref. No.: 25042

Matrix: SOLID

Location: SUGAR BEET FACTORY

Client Contact: Claire Moreira

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: SOLID
Location: SUGAR BEET FACTORY
Client Contact: Claire Moreira

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Job Number: 05/06025/02/01
Client: GeoDyne Limited
Client Ref. No.: 25042

Matrix: SOLID » Shown on pr
Location: SUGAR BEET FACTORY
Client Contact: Claire Moreira

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

Validated

Preliminary

ALcontrol Geochem Analytical Services

[#] ISO 17025 accredited

M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Job Number: 05/05604/02/01

Client: GeoDyne Limited

Client Ref. No.: 25042

Matrix: SOLID

Location: NOT SPECIFIED

Client Contact: Clare Clements

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Job Number: 05/05604/02/01
Client: GeoDyne Limited
Client Ref. No.: 25042

Matrix: SOLID
Location: NOT SPECIFIED
Client Contact: Clare Clements

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

Preliminary

Table Of Results

[#] ISO 17025 accredited

M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Job Number: 05/05604/02/01

Client: GeoDyne Limited

Client Ref. No.: 25042

Matrix: SOLID

Location: NOT SPECIFIED

Client Contact: Clare Clements

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

☒

Table Of Results

» Shown on prev. report

Client Ref. No.: 25042

Client Contact: Clare Clements

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005

Validated	☒
Preliminary	☒

ALcontrol Geochem Analytical Services

Table Of Results

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Job Number: 05/05604/02/01
Client: GeoDyne Limited
Client Ref. No.: 25042

Matrix: SOLID
Location: NOT SPECIFIED
Client Contact: Clare Clements

[illegible]

All results expressed on a dry weight basis.

Date 13.05.2005



Appendix B:

**Baseline MCERT accredited laboratory analysis data from: RSK
Geoconsult Report Ref. 50336-1(01) dated June 2007**

Date: 24 April 2007
Your Ref: D7912X
Our Ref: 31576R1(1)
Project Manager: Colin Shackleford

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from King's Lynn.
Received from Evans & Langford LLP
91 King Street, Maistone, Kent, ME14 1BG

Date of receipt 04 April 2007
Date of analysis 04 April 2007

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

TPH analysis is performed in accordance with procedure A-T-007.

PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Inorganic analysis was submitted to a laboratory on Envirolab's approved vendors list.

Prepared by:

Approved by:

Karl Hall
Analytical Chemist

Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "****" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Date: 05 June 2007
Your Ref: 50336
Our Ref: 31629R1(1)
Project Manager: Colin Shackelford

E+L CONSTRUCTION CONSULTANTS			
	JOE	BOB	EGG
DATE 11 JUN 2007			
JOB NO.			
ACTION <i>CPS</i>			

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from Kings Lynn.
Received from Eyans & Langford LLP
91 King Street, Maidstone, Kent, ME14 1BG

Date of receipt 21 May 2007
Date of analysis 21 May 2007

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.
PAH analysis is performed in accordance with procedure A-T-019.
Loss on drying analysis is performed in accordance with procedure A-T-020.
Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
A copy of the report is attached, accreditation status is detailed on the report.

Prepared by:

A. H. Winn

Angela Winn
Analytical Chemist

Approved by:

L Adams

Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "*" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	63044	63048	63050	63054	63056					
Location				^x BH2 D2	^x BH4 D1	BH4 D2	^x BH6 D1	BH6 D3					
Depth (m)				0.90	1.00	1.6	0.80	1.30					
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Toluene _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01					
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01					
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01					
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aliphatics >C10-12 _R	A-T-023	Y	N	<0.1	<0.1	2.8	<0.1	<0.1					
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	3.4	<0.1	<0.1					
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	3.9	<0.1	<0.1					
Aliphatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Total Aliphatics		Y	N	<0.1	<0.1	10.11	<0.1	<0.1					
Aromatics >C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01					
Aromatics >C8-C10 _R	A-T-022	Y	N	<0.01	0.05	0.06	<0.01	<0.01					
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1	2.6	5.0	<0.1	<0.1					
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	10.4	18.5	<0.1	<0.1					
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	10.4	11.2	<0.1	<0.1					
Aromatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Total Aromatics		Y	N	<0.1	23.45	34.77	<0.1	<0.1					
TPH (Aliphatics & Aromatics)		Y	N	<0.1	23.45	44.88	<0.1	<0.1					

Table 1 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	63044	63048	63054							
Location				BH2 D2	BH4 D1	BH6 D1							
Depth (m)				0.9	1.00	0.80							
Naphthalene _R	A-T-019	Y	Y	0.34	4.08	<0.01							
Acenaphthylene _R	A-T-019	Y	N	<0.01	0.16	<0.01							
Acenaphthene _R	A-T-019	Y	Y	<0.01	0.38	<0.01							
Fluorene _R	A-T-019	Y	Y	0.04	0.75	<0.01							
Phenanthrene _R	A-T-019	Y	Y	0.23	1.67	<0.01							
Anthracene _R	A-T-019	Y	Y	0.02	0.17	<0.01							
Fluoranthene _R	A-T-019	Y	Y	0.39	0.56	<0.01							
Pyrene _R	A-T-019	Y	Y	0.29	0.51	<0.01							
Benz [a] anthracene _R	A-T-019	Y	Y	0.01	<0.01	<0.01							
Chrysene _R	A-T-019	Y	Y	0.02	0.14	<0.01							
Benzo [b] fluoranthene _R Benzo [k] fluoranthene _R # _R	A-T-019	Y	Y	<0.01	<0.01	<0.01							
Benzo [a] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01							
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01							
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01							
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01							
Total		Y	N	1.34	8.42	<0.01							

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 2 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Notes

1. For detailed matrix description please see Table 4, below.
2. Analysis suffixed "D" were performed on the sample air dried at <30°C
3. Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were oven dried at 95°C.
4. Natural stones and debris are excluded from analyses.
5. Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample.



Date: 05 June 2007
 Your Ref: 50336
 Our Ref: 31629R1(1)
 Project Manager: Colin Shackleford

E+L CONSTRUCTION CONSULTANTS		
JOE	BOB	EGG
DATE 11 JUN 2007		
JOB NO.		
ACTION <i>CPS</i>		

Envirolab
 Units 7 & 8
 Sandpits Business Park
 Mottram Road
 Hyde
 Cheshire
 SK14 3AR

Final Test Report

Sample(s) of Soil from Kings Lynn.
 Received from Evans & Langford LLP
 91 King Street, Maidstone, Kent, ME14 1BG

Date of receipt 21 May 2007
 Date of analysis 21 May 2007

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.
 PAH analysis is performed in accordance with procedure A-T-019.
 Loss on drying analysis is performed in accordance with procedure A-T-020.
 Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
 A copy of the report is attached, accreditation status is detailed on the report.

Prepared by:

A. M. Winn

Angela Winn
 Analytical Chemist

Approved by:

L Adams

Louise Adams
 Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
 Tests marked "****" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
 Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	63044	63048	63050	63054	63056				
Location				BH2 D2	BH4 D1	BH4 D2	BH6 D1	BH6 D3				
Depth (m)				0.90	1.00	1.6	0.80	1.30				
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
Toluene _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01				
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01				
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01				
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
Aliphatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	2.8	<0.1	<0.1				
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	3.4	<0.1	<0.1				
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	3.9	<0.1	<0.1				
Aliphatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1				
Total Aliphatics		Y	N	<0.1	<0.1	10.11	<0.1	<0.1				
Aromatics >C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01				
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01				
Aromatics >C8-C10 _R	A-T-022	Y	N	<0.01	0.05	0.06	<0.01	<0.01				
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1	2.6	5.0	<0.1	<0.1				
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	10.4	18.5	<0.1	<0.1				
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	10.4	11.2	<0.1	<0.1				
Aromatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1				
Total Aromatics		Y	N	<0.1	23.45	34.77	<0.1	<0.1				
TPH (Aliphatics & Aromatics)		Y	N	<0.1	23.45	44.88	<0.1	<0.1				

Table 1 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	63044	63048	63054						
Location				X BH2 D2	X BH4 D1	X BH6 D1						
Depth (m)				0.9	1.00	0.80						
Naphthalene _R	A-T-019	Y	Y	0.34	4.08	<0.01						
Acenaphthylene _R	A-T-019	Y	N	<0.01	0.16	<0.01						
Acenaphthene _R	A-T-019	Y	Y	<0.01	0.38	<0.01						
Fluorene _R	A-T-019	Y	Y	0.04	0.75	<0.01						
Phenanthrene _R	A-T-019	Y	Y	0.23	1.67	<0.01						
Anthracene _R	A-T-019	Y	Y	0.02	0.17	<0.01						
Fluoranthene _R	A-T-019	Y	Y	0.39	0.56	<0.01						
Pyrene _R	A-T-019	Y	Y	0.29	0.51	<0.01						
Benz [a] anthracene _R	A-T-019	Y	Y	0.01	<0.01	<0.01						
Chrysene _R	A-T-019	Y	Y	0.02	0.14	<0.01						
Benzo [b] fluoranthene _R Benzo [k] fluoranthene _R # _R	A-T-019	Y	Y	<0.01	<0.01	<0.01						
Benzo [a] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01						
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01						
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01						
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01						
Total		Y	N	1.34	8.42	<0.01						

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 2 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Notes

1. For detailed matrix description please see Table 4, below.
2. Analysis suffixed "D" were performed on the sample air dried at <30°C
3. Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were oven dried at 95°C.
4. Natural stones and debris are excluded from analyses.
5. Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample.

Envirolab Ref.	63044	63048	63050	63054	63056					
Location	BH2 D2	BH4 D1	BH4 D2	BH6 D1	BH6 D3					
Depth (m)	0.9	1.0	1.6	0.8	1.3					
Consistency	Firm	Firm	Firm	Firm	Firm					
Colour	Brown	Brown	Brown	Brown	Brown					
Type	Clay	Clay	Clay	Clay	Clay					

Table 3 - Soil Matrix Table

Envirolab Ref.	UNITS	ISO17025	MCERTS	63044	63048	63054							
Location				BH2 D2	BH4 D1	BH6 D1							
Depth (m)				0.9	1.0	0.8							
Moisture Content (Dry Weight)	%	Y	Y	25.3	25.3	26.3							
Moisture Content (Wet Weight)	%	Y	Y	20.2	20.2	20.8							
Arsenic	mg/kg	Y	Y	41	10	7.9							
Cadmium	mg/kg	Y	Y	0.6	0.5	<0.5							
Chromium	mg/kg	Y	Y	25	25	24							
Copper	mg/kg	Y	Y	370	42.0	7.1							
Lead	mg/kg	Y	Y	270	35	24							
Mercury	mg/kg	Y	Y	1.5	0.7	<0.6							
Nickel	mg/kg	Y	Y	38	170	19							
Selenium	mg/kg	Y	Y	< 2.5	< 2.5	<2.5							
Total Sulphate as SO ₄	mg/kg	Y	Y	940	8300	410							
W/S Sulphate as SO ₄	g/l	Y	Y	0.07	0.91	0.07							
Zinc	mg/kg	Y	Y	150	520	50							
pH	pH Units	Y	Y	8.2	11.4	7.9							

Table 4 - Subcontract Soil Inorganic Results

Date: 28 June 2007
Your Ref: D7912X/CPS
Our Ref: 31670R1(1)
Project Manager: Colin Shackelford

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from Former Sugar Factory Site, King's Lynn.
Received from Evans & Langford LLP
91 King Street, Maistone, Kent, ME14 1BG

Date of receipt 11 June 2007
Date of analysis 11 June 2007

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

Prepared by:

G. Scott

Gill Scott
Laboratory Shift Team Leader

Approved by:

L. Adams

Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "M" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	64475										
Location				BH17										
Depth (m)				1.3										
MTBE _R	A-T-022	Y	N	<0.05										
Benzene _R	A-T-022	Y	N	<0.05										
Toluene _R	A-T-022	Y	N	<0.05										
Ethyl Benzene _R	A-T-022	Y	N	<0.05										
m & p Xylene _R	A-T-022	Y	N	<0.05										
o Xylene _R	A-T-022	Y	N	<0.05										
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.05										
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.05										
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.05										
Aliphatics >C10-C12 _R	A-T-023	Y	N	<0.1										
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1										
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1										
Aliphatics >C21-C36 _R	A-T-023	Y	N	<0.1										
Total Aliphatics		Y	N	<0.1										
Aromatics >C5-C6 _R	A-T-022	Y	N	<0.05										
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.05										
Aromatics >C8-C10 _R	A-T-022	Y	N	<0.05										
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1										
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1										
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1										
Aromatics >C21-C36 _R	A-T-023	Y	N	<0.1										
Total Aromatics		Y	N	<0.1										
TPH (Aliphatics & Aromatics)		Y	N	<0.1										

Table 1 - Soil Speciated TPH Results (mg/kg)

Increase in detection limit due to decrease in volume of sample used.



EnviroLab Ref.	PROCEDURE	ISO17025	MCERTS	64475									
Location				BH17									
Depth (m)				1.3									
Naphthalene _R	A-T-019	Y	Y	0.12									
Acenaphthylene _R	A-T-019	Y	N	0.01									
Acenaphthene _R	A-T-019	Y	Y	0.10									
Fluorene _R	A-T-019	Y	Y	0.03									
Phenanthrene _R	A-T-019	Y	Y	0.16									
Anthracene _R	A-T-019	Y	Y	<0.01									
Fluoranthene _R	A-T-019	Y	Y	0.06									
Pyrene _R	A-T-019	Y	Y	0.09									
Benzo [a] anthracene _R	A-T-019	Y	Y	<0.01									
Chrysene _R	A-T-019	Y	Y	<0.01									
Benzo [b] fluoranthene _R Benzo [k] fluoranthene _R # _R	A-T-019	Y	Y	<0.01									
Benzo [a] pyrene _R	A-T-019	Y	Y	<0.01									
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01									
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01									
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01									
Total		Y	N	0.57									

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 2 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	UNITS	ISO17025	MCERTS	LOD	64475								
Location					BH17								
Depth (m)					1.3								
Arsenic	mg/kg	Y	Y	3	7.5								
Cadmium	mg/kg	Y	Y	0.5	0.8								
Chromium	mg/kg	Y	Y	10	15								
Copper	mg/kg	Y	Y	5	10								
Lead	mg/kg	Y	Y	10	19								
Mercury	mg/kg	Y	Y	0.6	<0.6								
Nickel	mg/kg	Y	Y	4	8.8								
Selenium	mg/kg	Y	Y	2.5	<2.5								
Zinc	mg/kg	Y	Y	10	53								
pH - soil	pH Units	Y	Y		11.9								
Sulphate (Total Acid Soluble) as SO ₄	mg/kg	Y	Y	200	2500								
W/S Sulphate as SO ₄	g/l	Y	Y	0.02	0.15								
Exchangeable Ammonium as N	mg/kg	Y	Y	40	730								

Table 3 - Subcontracted Soil Inorganic Results

Notes

1. For detailed matrix description please see attached sheet.
2. Analysis suffixed "D" were performed on the sample air dried at <30°C
3. Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were oven dried at 95°C.
4. Natural stones and debris are excluded from analyses.
5. Coarse granular material such as concrete, gravel & brick are not MCERTS accredited if they comprise the major part of the sample.

Date: 26 April 2007
 Your Ref: D7912X
 Our Ref: 31575R1(2)
 Project Manager: Colin Shackelford

E+L CONSTRUCTION CONSULTANTS			
✓	JOE	SGR	EGS
DATE 8 - MAY 2007			
JOB No	D7912		
ACTION	CPS		

WS24 20.6
 Envirolab
 Units 7 & 8
 Sandpits Business Park
 Mottram Road
 Hyde
 Cheshire
 SK14 3AR

Final Test Report

Sample(s) of Soil from King's Lynn.
 Received from Evans & Langford LLP
 91 King Street, Maistone, Kent, ME14 1BG

Date of receipt 28 March 2007
 Date of analysis 28 March 2007

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.
 TPH and BTEX analysis is performed in accordance with procedure A-T-007.
 PAH analysis is performed in accordance with procedure A-T-019.
 Loss on drying analysis is performed in accordance with procedure A-T-020.
 Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

Prepared by:


 Jo Potter
 Laboratory Shift Team Leader

Approved by:


 Gill Scott
 Laboratory Shift Team Leader



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
 Tests marked "*" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
 Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60797	60800	60802	60805	60809	60810	60818	60828	60831	60834
Location				WS1 D2	WS2 D1	WS2 D3	WS4 D2	WS58 D2	WS58 D3	WS57 D1	WS19 D1	WS24 D1	WS22 D1
Depth (m)				0.8	0.8	2.5	1.2	1.3	1.8	0.5	0.1	0.6	0.4
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene _R	A-T-022	Y	N	<0.01	0.01	<0.01	0.01	<0.01	0.06	0.01	<0.01	<0.01	0.01
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-12 _R	A-T-023	Y	N	<0.1	3.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1	7.8	<0.1	11.2	<0.1	<0.1	<0.1	<0.1	5.3	<0.1
Aliphatics >C21-C36 _R	A-T-023	Y	N	<0.1	14.0	<0.1	12.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aliphatics		Y	N	<0.1	26.50	<0.1	23.60	<0.1	<0.1	<0.1	<0.1	5.30	<0.1
Aromatics >C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.01	0.01	<0.01	0.01	<0.01	0.06	0.01	<0.01	<0.01	0.01
Aromatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1	2.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	10.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	22.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.2	<0.1
Aromatics >C21-C36 _R	A-T-023	Y	N	<0.1	61.7	<0.1	<0.1	<0.1	5.8	<0.1	<0.1	6.3	<0.1
Total Aromatics		Y	N	<0.1	97.01	0.01	0.01	<0.1	5.86	0.01	<0.1	9.50	0.01
TPH (Aliphatics & Aromatics)		Y	N	<0.1	123.51	0.01	23.61	<0.1	5.86	0.01	<0.1	14.80	0.01

Table 1 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60843	60846	60852							
Location				WS54 D3	WS18 D2	WS52 D1							
Depth (m)				1.0	1.6	0.5							
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Toluene _R	A-T-022	Y	N	<0.01	0.01	<0.01							
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aliphatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Total Aliphatics		Y	N	<0.1	<0.1	<0.1							
Aromatics >C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.01	0.01	<0.01							
Aromatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aromatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Total Aromatics		Y	N	<0.1	0.01	<0.1							
TPH (Aliphatics & Aromatics)		Y	N	<0.1	0.01	<0.1							

Table 2 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60801	60803	60807	60816	60823	60840	60842	60845	60849	
Location				WS2 D2	WS2 D4	WS4 D4	WS7 D3	WS14 D2	WS29 D4	WS54 D2	WS18 D1	WS8 D2	
Depth (m)				1.60	3.40	3.10	1.50	0.70	2.80	0.60	0.50	1.70	
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Toluene _R	A-T-022	Y	N	0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	0.02	0.01	
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aliphatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.2	<0.1	
Aliphatics >C16-C21 _R	A-T-023	Y	N	2.6	6.3	3.2	<0.1	6.0	1.9	4.1	7.3	6.8	
Aliphatics >C21-C36 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Total Aliphatics		Y	N	2.60	6.30	3.20	<0.1	6.00	1.90	4.10	10.50	6.80	
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aromatics >C8-C10 _R	A-T-022	Y	N	0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	0.02	0.01	
Aromatics >C10-C12 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	6.0	<0.1	3.4	<0.1	<0.1	<0.1	<0.1	
Aromatics >C21-C36 _R	A-T-023	Y	N	1.3	4.5	8.3	<0.1	10.3	<0.1	<0.1	<0.1	8.1	
Total Aromatics		Y	N	16.8	<0.1	16.6	<0.1	15.5	<0.1	<0.1	<0.1	<0.1	
TPH (Aliphatics & Aromatics)		Y	N	20.71	4.50	30.90	0.01	29.20	<0.1	0.01	0.02	8.11	

Table 3 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60838				
Location				WS29 D2				
Depth (m)				0.7				
TPH _R	A-T-007	Y	N	<10				
H/C Range	A-T-007	N	N	-				
Comments	A-T-007	N	N	-				

Table 4 - Soil TPH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60797	60800	60805	60809	60818	60828	60831	60834	60838	60843
Location				WS1 D2	WS2 D1	WS4 D2	WS58 D1	WS57 D1	WS19 D1	WS24 D1	WS22 D1	WS29 D2	WS54 D3
Depth (m)				0.8	0.8	1.2	1.3	0.5	0.1	0.6	0.4	0.7	1.0
Naphthalene _R	A-T-019	Y	Y	<0.01	4.75	<0.01	<0.01	<0.01	<0.01	0.21	1.02	<0.01	<0.01
Acenaphthylene _R	A-T-019	Y	N	<0.01	0.24	<0.01	<0.01	<0.01	<0.01	0.01	0.05	<0.01	0.01
Acenaphthene _R	A-T-019	Y	Y	0.01	4.12	0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01
Fluorene _R	A-T-019	Y	Y	0.05	3.90	0.01	<0.01	<0.01	0.01	0.02	<0.01	0.01	0.01
Phenanthrene _R	A-T-019	Y	Y	0.74	21.00	0.24	<0.01	<0.01	<0.01	0.06	0.27	<0.01	<0.01
Anthracene _R	A-T-019	Y	Y	0.15	3.98	0.03	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Fluoranthene _R	A-T-019	Y	Y	0.75	23.10	0.04	<0.01	<0.01	<0.01	0.37	0.16	<0.01	<0.01
Pyrene _R	A-T-019	Y	Y	0.52	17.70	<0.01	<0.01	<0.01	<0.01	0.37	0.22	<0.01	<0.01
Benz [a] anthracene _R	A-T-019	Y	Y	0.24	7.80	<0.01	<0.01	<0.01	<0.01	0.18	<0.01	<0.01	<0.01
Chrysene _R	A-T-019	Y	Y	0.26	10.50	<0.01	<0.01	<0.01	<0.01	0.3	0.1	<0.01	<0.01
Benzo [b] fluoranthene _R Benzo [k] fluoranthene _R # _R	A-T-019	Y	Y	0.04	10.20	<0.01	<0.01	<0.01	<0.01	0.3	<0.01	<0.01	<0.01
Benzo [a] pyrene _R	A-T-019	Y	Y	<0.01	4.63	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01	2.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01	0.35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01	2.99	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01
Total		Y	N	2.76	117.26	0.33	<0.01	<0.01	0.01	1.97	1.86	0.01	0.02

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 5 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60846	60852								
Location				WS18 D2	WS52 D1								
Depth (m)				1.6	0.5								
Naphthalene _R	A-T-019	Y	Y	<0.01	<0.01								
Acenaphthylene _R	A-T-019	Y	N	<0.01	<0.01								
Acenaphthene _R	A-T-019	Y	Y	<0.01	<0.01								
Fluorene _R	A-T-019	Y	Y	<0.01	<0.01								
Phenanthrene _R	A-T-019	Y	Y	0.04	<0.01								
Anthracene _R	A-T-019	Y	Y	<0.01	<0.01								
Fluoranthene _R	A-T-019	Y	Y	<0.01	<0.01								
Pyrene _R	A-T-019	Y	Y	<0.01	<0.01								
Benz [a] anthracene _R	A-T-019	Y	Y	<0.01	<0.01								
Chrysene _R	A-T-019	Y	Y	<0.01	<0.01								
Benzo [b] fluoranthene _R Benzo [k] fluoranthene # _R	A-T-019	Y	Y	<0.01	<0.01								
Benzo [a] pyrene _R	A-T-019	Y	Y	<0.01	<0.01								
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01	<0.01								
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01	<0.01								
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01	<0.01								
Total		Y	N	0.04	<0.01								

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 6 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	60801	60803	60807	60816	60823	60840	60842	60845	60849	
Location				WS2 D2	WS2 D4	WS4 D4	WS7 D3	WS14 D2	WS29 D4	WS54 D2	WS18 D1	WS8 D2	
Depth (m)				1.6	3.4	3.1	1.5	0.7	2.8	0.6	0.5	1.7	
Naphthalene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	0.02	0.24	0.41	0.17	0.33	0.22	
Acenaphthylene _R	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.01	
Acenaphthene _R	A-T-019	Y	Y	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	
Fluorene _R	A-T-019	Y	Y	<0.01	0.01	<0.01	<0.01	<0.01	0.10	<0.01	<0.01	<0.01	
Phenanthrene _R	A-T-019	Y	Y	0.08	0.08	0.09	0.23	<0.01	0.09	<0.01	<0.01	<0.01	
Anthracene _R	A-T-019	Y	Y	<0.01	0.01	<0.01	0.03	<0.01	0.12	<0.01	<0.01	<0.01	
Fluoranthene _R	A-T-019	Y	Y	0.35	0.06	0.74	1.40	0.15	0.14	0.01	<0.01	<0.01	
Pyrene _R	A-T-019	Y	Y	0.12	0.06	0.19	0.40	0.03	0.18	0.01	<0.01	<0.01	
Benz [a] anthracene _R	A-T-019	Y	Y	<0.01	0.09	<0.01	0.14	0.05	<0.01	<0.01	<0.01	<0.01	
Chrysene _R	A-T-019	Y	Y	0.11	0.05	0.34	0.93	0.08	<0.01	<0.01	<0.01	<0.01	
Benzo [b] fluoranthene _R Benzo [k] fluoranthene _R # _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	0.25	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo [a] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Total		Y	N	0.66	0.42	1.36	3.40	0.55	1.19	0.19	0.33	0.22	

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 7 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	UNITS	ISO17025	MCERTS	LOD	60801	60803	60807	60816	60823	60840	60842	60845	60849
Location					WS2 D2	WS2 D4	WS7 D4	WS7 D3	WS14 D2	WS29 D4	WS64 D2	WS18 D1	WS8 D2
Depth (m)					2.5	3.4	3.1	1.5	0.7	2.8	0.6	0.5	1.7
Moisture Content (Dry Weight)	%	Y	Y	0.1	29.9	31.4	58.0	30.6	38.4	35.1	34.4	32.5	32.8
Moisture Content (Wet Weight)	%	Y	Y	0.1	23.0	23.9	36.7	23.4	27.7	26.0	25.6	24.5	24.7
Arsenic	mg/kg	Y	Y	3	6.2	8.0	38.0	18.0	23	9.7	12	15.0	13.0
Cadmium	mg/kg	Y	Y	0.5	0.9	0.6	2.1	1.5	1.5	1.2	1.4	1.1	1.0
Chromium	mg/kg	Y	Y	10	26	12	43	36	38	27	43	24	22
Copper	mg/kg	Y	Y	5	12	<5	51	19	19	12	18	15	10
Lead	mg/kg	Y	Y	10	21	10	53	34	54	27	39	41	19
Mercury	mg/kg	Y	Y	0.6	<0.6	<0.6	0.70	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	mg/kg	Y	Y	4	21	9.0	38	30	30	21	37	17	16
Selenium	mg/kg	Y	Y	2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Sulphate (Total Acid Soluble) as SO ₄	mg/kg	Y	Y	200	340	600	4400	590	270	1200	890	690	310
WS Sulphate as SO ₄	g/l	Y	Y	0.02	0.13	0.15	2.0	0.15	0.02	0.41	0.41	0.18	0.02
Zinc	mg/kg	Y	Y	10	58	29	140	81	110	61	92	61	48
pH	pH Units	Y	Y		7.6	7.9	7.8	7.9	7.7	7.7	7.6	7.2	7.8

Table 8 - Soil Inorganic Results

Envirolab Ref.	UNITS	ISO17026	MCERTS	LOD	60797	60800	60805	60809	60818	60828	60831	60834	60838
Location					WS1 D1	WS2 D1	WS4 D2	WS58 D2	WS57 D1	WS19 D1	WS24 D1	WS22 D1	WS29 D2
Depth (m)					0.8	0.8	1.2	1.3	0.5	0.1	0.6	0.4	0.7
Total Sulphate	mg/kg	Y	Y	<100	870	1500	260	220	640	190	1900	440	700
Arsenic	mg/kg	Y	Y	<3.0	7	35	4	<3	4	<3	5	9	10
Cadmium	mg/kg	Y	Y	<0.3	<0.3	2.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	Y	Y	<4.5	34	29	28	16	42	47	23	14	37
Copper	mg/kg	Y	Y	<6	17	170	15	7	16	<6	130	80	6
Lead	mg/kg	Y	Y	<2	34	280	29	18	48	23	38	31	15
Mercury	mg/kg	Y	Y	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Nickel	mg/kg	Y	Y	<0.9	30	38	25	14	30	19	14	55	42
Selenium	mg/kg	Y	Y	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	mg/kg	Y	Y	2.5	81	1300	77	37	110	51	64	50	100
W/S Sulphate as SO4	g/l	Y	Y	<0.003	0.11	0.12	0.011	0.006	0.082	0.050	0.097	0.025	0.071
pH	pH Units	Y	Y	<1.00	8.04	8.37	8.22	8.24	7.17	8.14	10.09	8.08	8.12

Table 9 - Soil Inorganic Results

Envirolab Ref.	UNITS	ISO17025	MCERTS	LOD	60843	60846	60852						
Location					WS54 D2	WS18 D2	WS52 D4						
Depth (m)					1.0	1.6	0.5						
Total Sulphate	mg/kg	Y	Y	<100	490	280	1300						
Arsenic	mg/kg	Y	Y	<3.0	5	4	7						
Cadmium	mg/kg	Y	Y	<0.3	<0.3	<0.3	<0.3						
Chromium	mg/kg	Y	Y	<4.5	34	20	35						
Copper	mg/kg	Y	Y	<6	9	<6	48						
Lead	mg/kg	Y	Y	<2	13	7	39						
Mercury	mg/kg	Y	Y	<0.6	<0.6	<0.6	<0.6						
Nickel	mg/kg	Y	Y	<0.9	28	16	37						
Selenium	mg/kg	Y	Y	<3	<3	<3	<3						
Zinc	mg/kg	Y	Y	2.5	79	46	110						
W/S Sulphate as SO ₄	g/l	Y	Y	<0.003	0.068	0.026	0.240						
pH	pH Units	Y	Y	<1.00	8.18	8.05	8.00						

Table 10 - Soil Inorganic Results

Envirolab Ref.	UNITS	ISO17025	MCERTS	LOD	60834								
Location					WS29 D2								
Depth (m)					0.7								
Dichlorvos	<ug/kg	Y	Y	<1	<10								
Mevinphos	<ug/kg	Y	Y	<1	<10								
Alpha-BHC (Lindane)	<ug/kg	Y	Y	<1	<10								
Beta-BHC (Linden)	<ug/kg	Y	Y	<1	<10								
Gamma-BHC (Linden)	<ug/kg	Y	Y	<1	<10								
Diazinon	<ug/kg	Y	Y	<1	<10								
Methyl Parathion	<ug/kg	Y	Y	<1	<10								
Heptachlor	<ug/kg	Y	Y	<1	<10								
Fenitrothion	<ug/kg	Y	Y	<1	<10								
Malathion	<ug/kg	Y	Y	<1	<10								
Aldrin	<ug/kg	Y	Y	<1	<10								
Parathion	<ug/kg	Y	Y	<1	<10								
Heptachlor Epoxide	<ug/kg	Y	Y	<1	<10								
Endosulphan I	<ug/kg	Y	Y	<1	<10								
p,p'-DDE	<ug/kg	Y	Y	<1	<10								
Dieldrin	<ug/kg	Y	Y	<1	<10								
Endrin	<ug/kg	Y	Y	<1	<10								
Endosulphan II	<ug/kg	Y	Y	<1	<10								
p,p'-TDE(DDD)	<ug/kg	Y	Y	<1	<10								
Ethion	<ug/kg	Y	Y	<1	<10								
p,p'-DDT	<ug/kg	Y	Y	<1	<10								
Endosulphan sulphate	<ug/kg	Y	Y	<1	<10								
p,p'-Methoxychlor	<ug/kg	Y	Y	<1	<10								
Azinphos methyl	<ug/kg	Y	Y	<1	<10								

Table 11- Soil OCP/OPP Results

Notes

1. For detailed matrix description please see attached sheet.
2. Analysis suffixed "D" were performed on the sample air dried at <30°C
3. Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were oven dried at 95°C.
4. Natural stones and debris are excluded from analyses.
5. Coarse granular material such as concrete, gravel & brick are not MCERTS accredited if they comprise the major part of the sample.

Date: 24 April 2007
Your Ref: D7912X
Our Ref: 31576R1(1)
Project Manager: Colin Shackleford

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
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Final Test Report

Sample(s) of Soil from King's Lynn.
Received from Evans & Langford LLP
91 King Street, Maistone, Kent, ME14 1BG

Date of receipt 04 April 2007
Date of analysis 04 April 2007

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

TPH analysis is performed in accordance with procedure A-T-007.

PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Inorganic analysis was submitted to a laboratory on Envirolab's approved vendors list.

Prepared by:

Approved by:

Karl Hall
Analytical Chemist

Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "***" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	61048	61051	61053	61057	61061	61064	61067	61073	61077
Location				WS40 D1	WS40 D4	WS38 D2	WS39 D2	WS42 D2	WS50 D1	WS59 D2	WS10 D2	WS5 D3
Depth (m)				0.3	3.4	0.6	0.8	2.3	0.3	1.4	1.5	2.1
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	0.37	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
Aliphatics >C10-C12 _R	A-T-023	Y	N	69.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C12-C16 _R	A-T-023	Y	N	370	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C16-C21 _R	A-T-023	Y	N	438	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C21-C36 _R	A-T-023	Y	N	216	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aliphatics		Y	N	1093.50	0.39	<0.1	<0.1	<0.1	<0.1	<0.1	0.02	<0.1
Aromatics >C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >C8-C10 _R	A-T-022	Y	N	0.02	0.36	0.04	<0.01	<0.01	<0.01	<0.01	0.03	<0.01
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C12-C16 _R	A-T-023	Y	N	62.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C16-C21 _R	A-T-023	Y	N	174	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C21-C36 _R	A-T-023	Y	N	53.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aromatics		Y	N	290.32	0.36	0.04	0.02	<0.1	<0.1	<0.1	0.03	<0.1
TPH (Aliphatics & Aromatics)		Y	N	1383.82	0.75	0.04	0.02	<0.1	<0.1	<0.1	0.05	<0.1

Table 1 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	61049	61054	61068		
Location				WS40 D2	WS38 D3	WS59 D3		
Depth (m)				0.6	1.5	2.0		
TPH _R	A-T-007	Y	N	<10	<10	<10		
H/C Range	A-T-007	N	N	-	-	-		
Comments	A-T-007	N	N	-	-	-		

Table 2 - Soil TPH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	61048	61051	61053	61057	61061	61064	61067	61073	61077	
Location				WS40 D1	WS40 D4	WS38 D2	WS39 D2	WS42 D2	WS6D1	WS59 D2	WS10 D2	WS5 D3	
Depth (m)				0.3	3.4	0.6	0.8	2.3	0.3	1.4	1.5	2.1	
Naphthalene _R	A-T-019	Y	Y	<0.01	0.11	<0.01	<0.01	0.12	<0.01	0.06	<0.01	0.06	
Acenaphthylene _R	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluorene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Phenanthrene _R	A-T-019	Y	Y	<0.01	0.06	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	0.14	
Anthracene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	0.01	
Fluoranthene _R	A-T-019	Y	Y	0.32	0.17	0.19	<0.01	<0.01	0.62	0.33	0.43	0.96	
Pyrene _R	A-T-019	Y	Y	0.59	0.07	<0.01	<0.01	<0.01	0.17	<0.01	0.14	0.23	
Benz [a] anthracene _R	A-T-019	Y	Y	0.15	<0.01	0.04	<0.01	<0.01	0.01	<0.01	0.03	0.06	
Chrysene _R	A-T-019	Y	Y	0.34	<0.01	0.17	<0.01	<0.01	0.18	0.1	0.15	0.6	
Benzo [b] fluoranthene _R Benzo [k] fluoranthene _R	A-T-019	Y	Y	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	
Benzo [a] pyrene _R	A-T-019	Y	Y	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Indeno [123-cd] pyrene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dibenz [ah] anthracene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo [ghi] perylene _R	A-T-019	Y	Y	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Total		Y	N	1.43	0.41	0.40	<0.01	0.30	0.98	0.49	0.75	2.17	

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 3 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	UNITS	ISO17025	MCERTS	LOD	61048	61051	61053	61057	61061	61064	61067	61073	61077
Location					WS40 D1	WS40 D4	WS38 D2	WS39 D2	WS42 D2	WS5D1	WS59 D2	WS10 D2	WS5 D2
Depth (m)					0.3	3.4	0.6	0.8	2.3	0.3	1.4	1.5	2.1
Moisture Content (Dry Weight)	%	Y	Y	0.1	11.8	59.2	15.6	26.3	46.3	31.8	34.2	21.2	34.0
Moisture Content (Wet Weight)	%	Y	Y	0.1	10.6	37.2	13.5	20.8	31.7	24.1	25.5	17.5	25.4
Arsenic	mg/kg	Y	Y	3	15	20	8	5	16	15	11	14	11
Cadmium	mg/kg	Y	Y	0.5	1.1	1.4	0.9	1.4	1.4	1.4	1.0	1.3	0.9
Chromium	mg/kg	Y	Y	10	14	37	23	37	36	32	26	30	26
Copper	mg/kg	Y	Y	5	30.0	18.0	8.5	24.0	20.0	16.0	8.9	88.0	14.0
Lead	mg/kg	Y	Y	10	23	33	19	51	52	33	22	41	25
Mercury	mg/kg	Y	Y	0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
Nickel	mg/kg	Y	Y	4	18	30	17	28	31	27	20	20	20
Selenium	mg/kg	Y	Y	2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Sulphate (Total Acid Soluble) as SO ₄	mg/kg	Y	Y	200	790	1600	320	930	1600	640	800	1800	470
WS Sulphate as SO ₄	g/l	Y	Y	0.02	0.34	0.67	0.14	0.34	0.57	0.25	0.30	0.49	0.10
Zinc	mg/kg	Y	Y	10	59	81	46	85	89	80	63	91	56
pH	pH Units	Y	Y		7.6	6.9	7.6	6.9	7.6	7.2	7.4	10.5	8.1

Table 4 - Soil Inorganic Results

Notes

1. For detailed matrix description please see attached sheet.
2. Analysis suffixed "D" were performed on the sample air dried at <30°C
3. Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were oven dried at 95°C.
4. Natural stones and debris are excluded from analyses.
5. Coarse granular material such as concrete, gravel & brick are not MCERTS accredited if they comprise the major part of the sample.



Appendix C:

**Baseline MCERT accredited laboratory analysis data from: RSK Evans &
Langford Report Ref. D7912C/CPS dated 31 March 2008**

ALcontrol Laboratories Analytical Services

Sample Descriptions

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref : GN11828

Grain sizes	
<0.063mm	Very Fine
0.1mm - 0.063mm	Fine
0.1mm - 2mm	Medium
2mm - 10mm	Coarse
>10mm	Very Coarse

[illegible]

* These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials-whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

¹ Sample Description supplied by client

Validated ☒
Preliminary ☐

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
M MCERTS accredited
* Subcontracted test
» Shown on prev. report

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref. No.: GN11828

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

Sample Identity	BH23 D1	BH23 D2	BH23 D3	BH23 D4	BH23 D5	BH23 D6	BH23 D13	BH23 D17	BH23 D21	Method Code	LoD/Units
Depth (m)	0.50	1.00	2.00	3.00	4.00	5.00	9.00	12.00	15.50		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	19.01.08		
Sample Received Date	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1 (1)	2 (2)	3 (3)	4 (4)	5 (5)	6 (6)	7 (13)	8 (17)	9 (21)		
Total Sulphate	-	-	-	-	-	-	-	-	79000	TM129 [#] _M	<100 mg/kg
Arsenic	-	12	-	14	-	12	-	-	-	TM129 [#] _M	<3.0 mg/kg
Cadmium	-	<0.3	-	<0.3	-	0.4	-	-	-	TM129	<0.3 mg/kg
Chromium	-	28	-	37	-	35	-	-	-	TM129 [#] _M	<4.5 mg/kg
Copper	-	18	-	30	-	28	-	-	-	TM129 [#]	<6 mg/kg
Lead	-	55	-	64	-	38	-	-	-	TM129 [#] _M	<2 mg/kg
Nickel	-	21	-	26	-	31	-	-	-	TM129 [#] _M	<0.9 mg/kg
Selenium	-	<3	-	<3	-	<3	-	-	-	TM129 [#] _M	<3 mg/kg
Zinc	-	110	-	110	-	100	-	-	-	TM129 [#] _M	<2.5 mg/kg
Water Soluble Sulphate as SO ₄ 2:1 Extract	-	-	-	-	-	-	0.16	0.47	0.049	TM098 [#] _M	<0.003 g/l
Phenols Monohydric	-	<0.15	-	<0.15	-	0.46	-	-	-	TM062 [#] _M	<0.15 mg/kg
Total Cyanide	-	<1	-	<1	-	<1	-	-	-	TM153 [#] _M	<1 mg/kg
Free Cyanide	-	<1	-	<1	-	<1	-	-	-	TM153	<1 mg/kg
pH Value	-	8.02	-	7.91	-	10.76	-	-	-	TM133 [#] _M	<1.00 pH Unit
Soluble Sulphate 2:1 Extract as SO ₄ BR	0.43	-	0.53	-	0.30	-	-	-	-	TM098 [#]	<0.003 g/l
Total Sulphur	-	-	-	-	-	-	-	-	2.5	TM068 [#]	<0.01 %
TPH C6-10	-	<10	-	<10	-	-	-	-	-	TM154	<10 mg/kg
TPH >C10-20	-	19	-	29	-	-	-	-	-	TM154	<10 mg/kg
TPH >C20-40	-	180	-	240	-	-	-	-	-	TM154	<10 mg/kg
TPH C6-40	-	200	-	270	-	-	-	-	-	TM154 [#]	<10 mg/kg

All results expressed on a dry weight basis.

Date 21.02.2008

Validated ☒
Preliminary ☐

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
M MCERTS accredited
* Subcontracted test
» Shown on prev. report

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref. No.: GN11828

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

Sample Identity	BH23 D1	BH23 D2	BH23 D3	BH23 D4	BH23 D5	BH23 D6	BH23 D13	BH23 D17	BH23 D21	Method Code	LoD/Units
Depth (m)	0.50	1.00	2.00	3.00	4.00	5.00	9.00	12.00	15.50		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	17.01.08	19.01.08		
Sample Received Date	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1 (1)	2 (2)	3 (3)	4 (4)	5 (5)	6 (6)	7 (13)	8 (17)	9 (21)		
PAH by GCMS											
Naphthalene	-	160	-	320	-	47	-	-	-	TM074 [#] _M	<10 ug/kg
Acenaphthylene	-	150	-	160	-	9	-	-	-	TM074 [#] _M	<5 ug/kg
Acenaphthene	-	240	-	390	-	23	-	-	-	TM074 [#] _M	<14 ug/kg
Fluorene	-	290	-	390	-	26	-	-	-	TM074 [#] _M	<12 ug/kg
Phenanthrene	-	2500	-	3000	-	240	-	-	-	TM074 [#] _M	<21 ug/kg
Anthracene	-	770	-	900	-	65	-	-	-	TM074 [#] _M	<9 ug/kg
Fluoranthene	-	4700	-	5600	-	330	-	-	-	TM074 [#] _M	<25 ug/kg
Pyrene	-	3900	-	4800	-	280	-	-	-	TM074 [#] _M	<22 ug/kg
Benzo(a)anthracene	-	2100	-	2700	-	160	-	-	-	TM074 [#] _M	<12 ug/kg
Chrysene	-	2100	-	2800	-	180	-	-	-	TM074 [#] _M	<10 ug/kg
Benzo(b)fluoranthene	-	2200	-	3600	-	200	-	-	-	TM074 [#] _M	<16 ug/kg
Benzo(k)fluoranthene	-	1500	-	1300	-	150	-	-	-	TM074 [#] _M	<25 ug/kg
Benzo(a)pyrene	-	2300	-	2900	-	130	-	-	-	TM074 [#] _M	<12 ug/kg
Indeno(123cd)pyrene	-	1100	-	1400	-	76	-	-	-	TM074 [#] _M	<11 ug/kg
Dibenzo(ah)anthracene	-	350	-	460	-	18	-	-	-	TM074 [#] _M	<8 ug/kg
Benzo(ghi)perylene	-	1100	-	1500	-	97	-	-	-	TM074 [#] _M	<10 ug/kg
PAH 16 Total	-	25000	-	32000	-	2000	-	-	-	TM074 [#] _M	<25 ug/kg

All results expressed on a dry weight basis.

Date 21.02.2008

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- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

All results expressed on a dry weight basis.

Date 21.02.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/02786/02/01
 Client: Harrison Group Ltd
 Client Ref. No.: GN11828

Report Key :

NDP No Determination Possible * Subcontracted test
 NFD No Fibres Detected » Result previously reported (Incremental reports only)
 # ISO 17025 accredited M MCERTS Accredited
 PFD Possible Fibres Detected EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7. Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM068	ASTM D-1552	Total sulphur determination by combustion method	✓		DRY	
TM074	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS. MCERTS Accreditation on Soils for Naphthalene except when Kerosene present.	✓		DRY	
TM074	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS. MCERTS Accreditation on Soils for Naphthalene except when Kerosene present.	✓	✓	DRY	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser	✓		DRY	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser	✓	✓	DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓		DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM133	BS 1377: Part 3 1990	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser			WET	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	✓	✓	WET	
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40			WET	
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40	✓		WET	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Appendix D:

**Baseline MCERT accredited laboratory analysis data from: Harrison
Geotechnical Engineering report Ref. GN11828Fact dated April 2008**

ALcontrol Laboratories Analytical Services Sample Descriptions

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref : GN11828

Grain sizes	
<0.063mm	Very Fine
0.1mm - 0.063mm	Fine
0.1mm - 2mm	Medium
2mm - 10mm	Coarse
>10mm	Very Coarse

[illegible]

* These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials-whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

¹ Sample Description supplied by client

Validated ☒
Preliminary ☐

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
M MCERTS accredited
* Subcontracted test
» Shown on prev. report

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref. No.: GN11828

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

Sample Identity	BHP1 D1	BHP1 D2	BHP1 D6	BHP1 U1	BHP2 D2	BHP2 D3	BHP2 D19	BHP2 U3	BHP3 D1	Method Code	LoD/Units
Depth (m)	0.50	1.20	4.00	12.00-12.45	1.00	1.50	13.50	15.00-15.45	0.50		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.01.08	16.01.08	16.01.08	16.01.08	15.01.08	15.01.08	15.01.08	15.01.08	15.01.08		
Sample Received Date	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	12 (1)	13 (2)	14 (6)	15 (1)	16 (2)	17 (3)	18 (19)	19 (3)	20 (1)		
Total Sulphate	-	-	-	42000	-	-	1500	1200	-	TM129 [#] _M	<100 mg/kg
Arsenic	<3	-	-	-	-	31	-	-	26	TM129 [#] _M	<3.0 mg/kg
Cadmium	<0.3	-	-	-	-	<0.3	-	-	<0.3	TM129 [#] _M	<0.3 mg/kg
Chromium	38	-	-	-	-	38	-	-	36	TM129 [#] _M	<4.5 mg/kg
Copper	15	-	-	-	-	7	-	-	11	TM129 [#] _M	<6 mg/kg
Lead	15	-	-	-	-	6	-	-	6	TM129 [#] _M	<2 mg/kg
Nickel	30	-	-	-	-	32	-	-	31	TM129 [#] _M	<0.9 mg/kg
Selenium	<3	-	-	-	-	<3	-	-	<3	TM129 [#] _M	<3 mg/kg
Zinc	85	-	-	-	-	80	-	-	80	TM129 [#] _M	<2.5 mg/kg
Water Soluble Sulphate as SO4 2:1 Extract	-	-	-	2.6	-	-	0.32	0.49	-	TM098 [#] _M	<0.003 g/l
Phenols Monohydric	<0.15	-	-	-	-	<0.15	-	-	<0.15	TM062 [#] _M	<0.15 mg/kg
Total Cyanide	<1	-	-	-	-	<1	-	-	<1	TM153 [#] _M	<1 mg/kg
Free Cyanide	<1	-	-	-	-	<1	-	-	<1	TM153 [#] _M	<1 mg/kg
pH Value	8.37	8.29	7.70	7.89	8.32	8.23	8.32	8.42	8.48	TM133 [#] _M	<1.00 pH Units
Soluble Sulphate 2:1 Extract as SO4 BRE	-	0.031	1.1	2.5	0.13	-	NDP	0.48	-	TM098 [#] _M	<0.003 g/l
Total Sulphur	-	-	-	1.9	-	-	0.15	0.24	-	TM068 [#] _M	<0.01 %
TPH C6-10	<10	-	-	-	-	<10	-	-	<10	TM154 [#] _M	<10 mg/kg
TPH >C10-20	<10	-	-	-	-	<10	-	-	<10	TM154 [#] _M	<10 mg/kg
TPH >C20-40	<10	-	-	-	-	<10	-	-	<10	TM154 [#] _M	<10 mg/kg
TPH C6-40	<10	-	-	-	-	<10	-	-	<10	TM154 [#] _M	<10 mg/kg

All results expressed on a dry weight basis.

Date 10.03.2008

Validated



Preliminary



ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited

M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Job Number: 08/02786/02/01

Client: Harrison Group Ltd

Client Ref. No.: GN11828

Matrix: SOLID

Location: PALM PAPER

Client Contact: Andrew Soanes

Sample Identity	BHP1 D1	BHP1 D2	BHP1 D6	BHP1 U1	BHP2 D2	BHP2 D3	BHP2 D19	BHP2 U3	BHP3 D1	Method Code	LoD/Units
Depth (m)	0.50	1.20	4.00	12.00-12.45	1.00	1.50	13.50	15.00-15.45	0.50		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.01.08	16.01.08	16.01.08	16.01.08	15.01.08	15.01.08	15.01.08	15.01.08	15.01.08		
Sample Received Date	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	12 (1)	13 (2)	14 (6)	15 (1)	16 (2)	17 (3)	18 (19)	19 (3)	20 (1)		
PAH by GCMS											
Naphthalene	40	-	-	-	-	14	-	-	18	TM074 [#] _M	<10 ug/kg
Acenaphthylene	<5	-	-	-	-	<5	-	-	<5	TM074 [#] _M	<5 ug/kg
Acenaphthene	<14	-	-	-	-	<14	-	-	<14	TM074 [#] _M	<14 ug/kg
Fluorene	<12	-	-	-	-	<12	-	-	<12	TM074 [#] _M	<12 ug/kg
Phenanthrene	63	-	-	-	-	27	-	-	52	TM074 [#] _M	<21 ug/kg
Anthracene	9	-	-	-	-	<9	-	-	<9	TM074 [#] _M	<9 ug/kg
Fluoranthene	39	-	-	-	-	<25	-	-	45	TM074 [#] _M	<25 ug/kg
Pyrene	35	-	-	-	-	<22	-	-	42	TM074 [#] _M	<22 ug/kg
Benz(a)anthracene	40	-	-	-	-	<12	-	-	38	TM074 [#] _M	<12 ug/kg
Chrysene	27	-	-	-	-	<10	-	-	34	TM074 [#] _M	<10 ug/kg
Benzo(b)fluoranthene	34	-	-	-	-	<16	-	-	47	TM074 [#] _M	<16 ug/kg
Benzo(k)fluoranthene	<25	-	-	-	-	<25	-	-	<25	TM074 [#] _M	<25 ug/kg
Benzo(a)pyrene	28	-	-	-	-	<12	-	-	23	TM074 [#] _M	<12 ug/kg
Indeno(123cd)pyrene	11	-	-	-	-	<11	-	-	15	TM074 [#] _M	<11 ug/kg
Dibenzo(ah)anthracene	13	-	-	-	-	<8	-	-	9	TM074 [#] _M	<8 ug/kg
Benzo(ghi)perylene	23	-	-	-	-	<10	-	-	27	TM074 [#] _M	<10 ug/kg
PAH 16 Total	360	-	-	-	-	41	-	-	350	TM074 [#] _M	<25 ug/kg

All results expressed on a dry weight basis.

Date 10.03.2008

Validated ☒
Preliminary ☐

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
M MCERTS accredited
* Subcontracted test
» Shown on prev. report

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref. No.: GN11828

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

Sample Identity	BHP3 D2	WSP1 2	WSP2 D	WSP3 D2	WSP4 D1	WSP5 D2	WSP6 D2	WSP7 D1	WSP8 D2	Method Code	LoD/Units
Depth (m)	1.00	1.00	0.50	1.00	0.50	1.00	1.00	0.50	1.00		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	15.01.08	18.01.08	18.01.08	18.01.08	18.01.08	18.01.08	18.01.08	21.01.08	21.01.08		
Sample Received Date	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	21 (2)	22 (2)	23 (1)	24 (2)	25 (1)	26 (2)	27 (2)	28 (1)	29 (2)		
Total Sulphate	-	-	-	-	-	-	-	-	-	TM129 [#] _M	<100 mg/kg
Arsenic	23	22	21	20	29	25	9	11	13	TM129 [#] _M	<3.0 mg/kg
Cadmium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	TM129 [#] _M	<0.3 mg/kg
Chromium	36	34	33	27	41	42	31	30	31	TM129 [#] _M	<4.5 mg/kg
Copper	12	9	11	9	12	12	14	17	15	TM129 [#] _M	<6 mg/kg
Lead	15	8	5	8	8	7	17	24	17	TM129 [#] _M	<2 mg/kg
Nickel	29	29	28	24	38	35	25	25	26	TM129 [#] _M	<0.9 mg/kg
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	TM129 [#] _M	<3 mg/kg
Zinc	93	81	77	71	96	98	77	93	79	TM129 [#] _M	<2.5 mg/kg
Water Soluble Sulphate as SO4 2:1 Extract	-	-	-	-	-	-	-	-	-	TM098 [#] _M	<0.003 g/l
Phenols Monohydric	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	TM062 [#] _M	<0.15 mg/kg
Total Cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM153 [#] _M	<1 mg/kg
Free Cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM153 [#] _M	<1 mg/kg
pH Value	7.94	7.94	7.93	7.82	8.17	8.06	8.08	8.17	8.23	TM133 [#] _M	<1.00 pH Units
Soluble Sulphate 2:1 Extract as SO4 BRE	-	-	-	-	-	-	-	-	-	TM098 [#] _M	<0.003 g/l
Total Sulphur	-	-	-	-	-	-	-	-	-	TM068 [#] _M	<0.01 %
TPH C6-10	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM154 [#] _M	<10 mg/kg
TPH >C10-20	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM154 [#] _M	<10 mg/kg
TPH >C20-40	180	52	74	<10	<10	<10	51	130	<10	TM154 [#] _M	<10 mg/kg
TPH C6-40	190	52	74	<10	<10	<10	51	130	<10	TM154 [#] _M	<10 mg/kg

All results expressed on a dry weight basis.

Date 10.03.2008

Validated



Preliminary

**ALcontrol Laboratories Analytical Services**

ISO 17025 accredited

M MCERTS accredited

* Subcontracted test

» Shown on prev. report

Table Of Results

Job Number: 08/02786/02/01

Matrix: SOLID

Client: Harrison Group Ltd

Location: PALM PAPER

Client Ref. No.: GNI1828

Client Contact: Andrew Soanes

Sample Identity	BHP3 D2	WSP1 2	WSP2 D	WSP3 D2	WSP4 D1	WSP5 D2	WSP6 D2	WSP7 D1	WSP8 D2	Method Code	LoB/Units
Depth (m)	1.00	1.00	0.50	1.00	0.50	1.00	1.00	0.50	1.00		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	15.01.08	18.01.08	18.01.08	18.01.08	18.01.08	18.01.08	18.01.08	21.01.08	21.01.08		
Sample Received Date	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08	08.02.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	21 (2)	22 (2)	23 (1)	24 (2)	25 (1)	26 (2)	27 (2)	28 (1)	29 (2)		
PAH by GCMS											
Naphthalene	28	23	39	99	43	47	46	33	21	TM074 [#] _M	<10 ug/kg
Acenaphthylene	11	<5	<5	6	6	6	7	17	<5	TM074 [#] _M	<5 ug/kg
Acenaphthene	32	<14	<14	20	<14	<14	<14	72	<14	TM074 [#] _M	<14 ug/kg
Fluorene	41	<12	12	24	17	15	12	52	<12	TM074 [#] _M	<12 ug/kg
Phenanthrene	220	44	54	78	31	38	120	950	68	TM074 [#] _M	<21 ug/kg
Anthracene	45	<9	<9	12	<9	<9	21	190	<9	TM074 [#] _M	<9 ug/kg
Fluoranthene	480	33	37	42	<25	<25	260	1800	86	TM074 [#] _M	<25 ug/kg
Pyrene	370	31	38	47	<22	<22	230	1500	71	TM074 [#] _M	<22 ug/kg
Benz(a)anthracene	180	32	34	37	20	34	150	640	55	TM074 [#] _M	<12 ug/kg
Chrysene	230	32	35	40	18	21	210	820	66	TM074 [#] _M	<10 ug/kg
Benzo(b)fluoranthene	330	53	55	49	28	32	270	590	71	TM074 [#] _M	<16 ug/kg
Benzo(k)fluoranthene	160	<25	26	<25	<25	<25	160	510	50	TM074 [#] _M	<25 ug/kg
Benzo(a)pyrene	190	19	21	23	<12	<12	170	690	40	TM074 [#] _M	<12 ug/kg
Indeno(123cd)pyrene	120	13	16	18	<11	<11	110	370	28	TM074 [#] _M	<11 ug/kg
Dibenzo(ah)anthracene	37	<8	10	9	<8	<8	55	120	12	TM074 [#] _M	<8 ug/kg
Benzo(ghi)perylene	130	34	34	38	14	23	120	420	38	TM074 [#] _M	<10 ug/kg
PAH 16 Total	2600	310	410	540	180	220	1900	8800	610	TM074 [#] _M	<25 ug/kg

All results expressed on a dry weight basis.

Date 10.03.2008

- # ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Job Number: 08/02786/02/01
Client: Harrison Group Ltd
Client Ref. No.: GN11828

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

[illegible]

All results expressed on a dry weight basis.

Date 10.03.2008

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» Shown on prev. report

Matrix: SOLID
Location: PALM PAPER
Client Contact: Andrew Soanes

All results expressed on a dry weight basis.

Date 10.03.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/02786/02/01
 Client: Harrison Group Ltd
 Client Ref. No.: GN11828

Report Key :

NDP No Determination Possible * Subcontracted test
 NFD No Fibres Detected » Result previously reported (Incremental reports only)
 # ISO 17025 accredited M MCERTS Accredited
 PFD Possible Fibres Detected EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	Accredited ISO 17025	Accredited MCERTS	Wet/Dry Sample ¹	Surrogate Corrected
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM068	ASTM D-1552	Total sulphur determination by combustion method	✓		DRY	
TM074	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS. MCERTS Accreditation on Soils for Naphthalene except when Kerosene present.	✓		DRY	
TM074	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS. MCERTS Accreditation on Soils for Naphthalene except when Kerosene present.	✓	✓	DRY	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser	✓		DRY	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser	✓	✓	DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓		DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM133	BS 1377: Part 3 1990	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser			WET	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	✓	✓	WET	
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40			WET	
TM154	In - house Method	Determination of Petroleum Hydrocarbons by EZ Flash GC-FID in the Carbon range C6- C40	✓		WET	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.



Appendix E:

**Baseline MCERT accredited laboratory analysis data from: RSK
Geoconsult Report Ref. 50369/L05 dated August 2008**

Debbie Lee
Tamdown Regeneration Ltd
1 Tamdown Way
Braintree
Essex
CM7 2QL

23 April 2008

TEST REPORT

Our Report Number: 08-48649

Your Order Reference: RP/R111/39

26 soil samples submitted for analysis on 07/04/2008

Project Name: Kings Lynn

Project Code: 50369

Laboratory analysis started on 10/04/2008

All laboratory analysis completed by 23 April 2008

Rexona Rahman
Analytical Reporting Manager
ALCONTROL LABORATORIES

Tracy Pia
Quality Manager
ALCONTROL LABORATORIES

Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

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Sample Description

Matrix: Soil
Project Name: Kings Lynn

Job Number: 08-48649
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	Sample Description
308883	TP RSK A1	1.0	31/03/08	Dark grey clay
308884	TP RSK A1	2.7	31/03/08	Dark grey clay
308885	TP RSK A2	0.6-0.7	31/03/08	Brown sandy clay
308886	TP RSK A2	1.0	31/03/08	Dark brown clay
308887	TP RSK A3	1.0	31/03/08	Dark brown clay
308888	TP RSK A4	1.0	31/03/08	Brown clay
308889	TP RSK A5	0.3-0.7	31/03/08	Dark brown clay
308890	TP RSK A5	1.0	31/03/08	Dark brown clay
308891	TP RSK A6	0.8	31/03/08	Dark grey clay with fibrous material and fibres
308892	TP RSK A6	1.2	31/03/08	Brown clay
308893	TP RSK E1	0.9	31/03/08	Brown clay
308894	TP RSK E1	2.5	31/03/08	Dark brown clay
308895	TP RSK E3	1.0	31/03/08	Brown clay
308896	TP RSK E3	2.6	31/03/08	Dark grey clay
308897	TP RSK E4	0.9	31/03/08	Dark brown clay
308898	TP RSK E4	2.3	31/03/08	Dark grey clay
308899	TP RSK 25	0.5	31/03/08	Brown clay
308900	TP RSK 25	1.5	31/03/08	Grey & brown clay
308901	TP RSK 26	0.2	31/03/08	Black clay with gravel and coal / coke
308902	TP RSK 26	1.0	31/03/08	Brown clay

*Denotes outside the scope of MCERTS accreditation since matrix not included in method validation.

Matrix: Soil
Project Name: Kings Lynn

Job Number: 08-48649

[illegible]

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ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK A1	TP RSK A1	TP RSK A2	TP RSK A2	TP RSK A3	Method No	Units	LOD
Sample Depth (m)	1	2.7	0.6-0.7	1	1			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308883	308884	308885	308886	308887			
Analysis								
Moisture Content (Wet Weight)	28.9	36.4	13.0	24.9	34.0		%	0.1
Moisture Content (Dry Weight)	40.7	57.3	14.9	33.1	51.6		%	0.1
Asbestos (Screen)	Absent	Absent	Absent	-	-	001a		
Arsenic	12	17	11	17	15	069S TM	mg/kg	3
Barium	93	80	55	99	87	069S TM	mg/kg	10
Beryllium	0.8	1.3	0.8	1.1	1.1	069S TM	mg/kg	0.5
Boron (W/S)	4.1	5.9	1.1	3.2	3.7	016S TM	mg/kg	0.5
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	069S TM	mg/kg	0.5
Chromium	26	40	15	35	33	069S TM	mg/kg	10
Copper	14	18	9.7	16	15	069S TM	mg/kg	5
Lead	25	36	16	38	33	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	21	33	13	27	26	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.05	0.51	0.17	0.09	0.24	074 TM	g/l	0.02
Vanadium	41	58	34	53	50	069S TM	mg/kg	3
Zinc	57	78	31	73	72	069S TM	mg/kg	10
pH	8.3	8.6	11.3	8.9	7.9	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	< 0.01	< 0.01	0.092	< 0.01	0.011	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	< 0.01	< 0.01	1.3	< 0.01	< 0.01	068S	mg/kg	0.01
VPH Compounds (C5-C12)	0.011	< 0.01	1.4	0.011	0.013	068S	mg/kg	0.01

¹ ISO 17025 accredited.

^{*} MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK A4	TP RSK A5	TP RSK A5	TP RSK A6	TP RSK A6	Method No	Units	LOD
Sample Depth (m)	1	0.3-0.7	1	0.8	1.2			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308888	308889	308890	308891	308892			
Analysis								
Moisture Content (Wet Weight)	25.4	29.3	25.2	29.4	24.4		%	0.1
Moisture Content (Dry Weight)	34.0	41.5	33.8	41.6	32.2		%	0.1
Asbestos (Screen)		Absent	-	Absent	-	001a		
Arsenic	12	18	8.8	21	9.3	069S TM	mg/kg	3
Barium	110	140	92	110	84	069S TM	mg/kg	10
Beryllium	1.0	1.1	1.1	1.0	1.0	069S TM	mg/kg	0.5
Boron (W/S)	3.1	2.4	3.0	1.1	3.1	016S TM	mg/kg	0.5
Cadmium	< 0.5	0.7	< 0.5	0.8	< 0.5	069S TM	mg/kg	0.5
Chromium	32	33	35	23	33	069S TM	mg/kg	10
Copper	22	35	15	79	13	069S TM	mg/kg	5
Lead	56	54	33	110	32	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	26	26	28	21	26	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.32	0.59	0.12	0.63	0.10	074 TM	g/l	0.02
Vanadium	49	47	52	36	47	069S TM	mg/kg	3
Zinc	120	220	73	380	70	069S TM	mg/kg	10
pH	9.1	8.5	8.2	9.8	8.4	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	0.018	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	< 0.01	0.094	< 0.01	0.060	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	< 0.01	0.28	< 0.01	0.18	< 0.01	068S	mg/kg	0.01
VPH Compounds (C5-C12)	< 0.01	0.37	< 0.01	0.24	< 0.01	068S	mg/kg	0.01

¹ ISO 17025 accredited.

² MCERTS accredited for sand, loam and clay.

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Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK E1	TP RSK E1	TP RSK E3	TP RSK E3	TP RSK E4	Method No	Units	LOD
Sample Depth (m)	0.9	2.5	1	2.6	0.9			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308893	308894	308895	308896	308897			
Analysis								
Moisture Content (Wet Weight)	23.6	33.5	20.1	38.0	23.7		%	0.1
Moisture Content (Dry Weight)	30.9	50.4	25.2	61.4	31.0		%	0.1
Asbestos (Screen)	Absent	-	-	-	-	001a		
Arsenic	-	-	-	-	-	069S TM	mg/kg	3
Barium	-	-	-	-	-	069S TM	mg/kg	10
Beryllium	-	-	-	-	-	069S TM	mg/kg	0.5
Boron (W/S)	-	-	-	-	-	016S TM	mg/kg	0.5
Cadmium	-	-	-	-	-	069S TM	mg/kg	0.5
Chromium	-	-	-	-	-	069S TM	mg/kg	10
Copper	-	-	-	-	-	069S TM	mg/kg	5
Lead	-	-	-	-	-	069S TM	mg/kg	10
Mercury	-	-	-	-	-	069S TM	mg/kg	0.6
Nickel	-	-	-	-	-	069S TM	mg/kg	4
Selenium	-	-	-	-	-	069S TM	mg/kg	2.5
W/S Sulphate as SO4	-	-	-	-	-	074 TM	g/l	0.02
Vanadium	-	-	-	-	-	069S TM	mg/kg	3
Zinc	-	-	-	-	-	069S TM	mg/kg	10
pH	-	-	-	-	-	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	0.040	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	0.042	< 0.01	< 0.01	< 0.01	< 0.01	068S	mg/kg	0.01
VPH Compounds (C5-C12)	0.082	0.010	< 0.01	< 0.01	< 0.01	068S	mg/kg	0.01

¹ ISO 17025 accredited.

TM MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^T ISO 17025 accredited.

⁸ MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK E4	TP RSK 25	TP RSK 25	TP RSK 26	TP RSK 26	Method No	Units	LOD
Sample Depth (m)	2.3	0.5	1.5	0.2	1			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308898	308899	308900	308901	308902			
Analysis								
Moisture Content (Wet Weight)	32.9	27.2	31.0	26.6	25.3		%	0.1
Moisture Content (Dry Weight)	49.0	37.4	44.9	36.2	33.9		%	0.1
Asbestos (Screen)	-	-	-	Absent		001a		
Arsenic	-	-	-	21	14	069S TM	mg/kg	3
Barium	-	-	-	370	96	069S TM	mg/kg	10
Beryllium	-	-	-	6.2	1.0	069S TM	mg/kg	0.5
Boron (W/S)	-	-	-	3.8	2.4	016S TM	mg/kg	0.5
Cadmium	-	-	-	0.8	< 0.5	069S TM	mg/kg	0.5
Chromium	-	-	-	32	31	069S TM	mg/kg	10
Copper	-	-	-	140	16	069S TM	mg/kg	5
Lead	-	-	-	170	28	069S TM	mg/kg	10
Mercury	-	-	-	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	-	-	-	50	24	069S TM	mg/kg	4
Selenium	-	-	-	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	-	-	-	0.19	0.03	074 TM	g/l	0.02
Vanadium	-	-	-	85	49	069S TM	mg/kg	3
Zinc	-	-	-	220	69	069S TM	mg/kg	10
pH	-	-	-	8.4	8.4	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	0.017	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S	mg/kg	0.01
VPH Compounds (C5-C12)	0.017	< 0.01	< 0.01	< 0.01	< 0.01	068S	mg/kg	0.01

¹ ISO 17025 accredited.

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ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK 28	TP RSK 28	TP RSK 29	TP RSK 29	TP RSK 30	Method No	Units	LOD
Sample Depth (m)	0.3-0.4	1	0.3-0.7	1	0.2-0.6			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308903	308904	308905	308906	308907			
Analysis								
Moisture Content (Wet Weight)	20.7	31.9	30.6	31.0	28.8		%	0.1
Moisture Content (Dry Weight)	26.1	46.8	44.2	45.0	40.5		%	0.1
Asbestos (Screen)	-	-	Absent	-	Absent	001a		
Arsenic	-	14	14	15	15	069S TM	mg/kg	3
Barium	-	72	200	87	150	069S TM	mg/kg	10
Beryllium	-	1.4	3.2	1.4	2.5	069S TM	mg/kg	0.5
Boron (W/S)	-	4.2	11	4.9	56	016S TM	mg/kg	0.5
Cadmium	-	< 0.5	0.5	< 0.5	< 0.5	069S TM	mg/kg	0.5
Chromium	-	44	22	42	36	069S TM	mg/kg	10
Copper	-	18	110	19	39	069S TM	mg/kg	5
Lead	-	47	43	41	47	069S TM	mg/kg	10
Mercury	-	< 0.6	< 0.6	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	-	34	36	35	39	069S TM	mg/kg	4
Selenium	-	< 2.5	< 2.5	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	-	0.05	0.88	0.28	1.3	074 TM	g/l	0.02
Vanadium	-	64	60	64	66	069S TM	mg/kg	3
Zinc	-	100	270	88	88	069S TM	mg/kg	10
pH	-	7.1	7.7	7.8	8.3	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	-	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	-	0.15	0.087	< 0.01	0.011	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	-	1.3	0.50	< 0.01	< 0.01	068S	mg/kg	0.01
VPH Compounds (C5-C12)	-	1.4	0.58	< 0.01	0.011	068S	mg/kg	0.01

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ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK 30					Method No	Units	LOD
Sample Depth (m)	0.8							
Date Sampled	31/03/08							
Date Scheduled	07/04/08							
Laboratory Reference No	308908							
Analysis								
Moisture Content (Wet Weight)	24.6						%	0.1
Moisture Content (Dry Weight)	32.7						%	0.1
Asbestos (Screen)	-					001a		
Arsenic	10					069S TM	mg/kg	3
Barium	110					069S TM	mg/kg	10
Beryllium	1.0					069S TM	mg/kg	0.5
Boron (W/S)	3.7					016S TM	mg/kg	0.5
Cadmium	< 0.5					069S TM	mg/kg	0.5
Chromium	30					069S TM	mg/kg	10
Copper	13					069S TM	mg/kg	5
Lead	29					069S TM	mg/kg	10
Mercury	< 0.6					069S TM	mg/kg	0.6
Nickel	23					069S TM	mg/kg	4
Selenium	< 2.5					069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.03					074 TM	g/l	0.02
Vanadium	45					069S TM	mg/kg	3
Zinc	67					069S TM	mg/kg	10
pH	8.5					084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01					068S TM	mg/kg	0.01
Benzene	< 0.01					068S TM	mg/kg	0.01
Toluene	< 0.01					068S TM	mg/kg	0.01
Ethylbenzene	< 0.01					068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01					068S TM	mg/kg	0.01
o-Xylene	< 0.01					068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01					068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01					068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	< 0.01					068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	< 0.01					068S	mg/kg	0.01
VPH Compounds (C5-C12)	< 0.01					068S	mg/kg	0.01

[†] ISO 17025 accredited.

^{**} MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK A5	TP RSK A6	TP RSK E1	TP RSK 28	TP RSK 29	Method No	Units	LOD
Sample Depth (m)	0.3-0.7	0.8	0.9	0.3-0.4	0.3-0.7			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308889	308891	308893	308903	308905			
Analysis								
** VOC SUITE **								
Dichlorodifluoromethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Chloromethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Vinyl Chloride	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
Bromomethane	< 25	< 25	< 25	< 25	< 25	071S	ug/kg	25
Chloroethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Trichlorofluoromethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,1-Dichloroethene	< 25	< 25	< 25	< 25	< 25	071S	ug/kg	25
112-Trichloro-122-Trifluoroethane	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
Dichloromethane	< 50	< 50	< 50	< 50	< 50	071S ^T	ug/kg	50
Carbon Disulfide	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Trans-1,2 Dichloroethene	< 25	< 25	< 25	< 25	< 25	071S	ug/kg	25
MTBE	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
1,1 -Dichloroethane	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
Cis-1,2 Dichloroethene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Bromochloromethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Chloroform	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
2,2-Dichloropropane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,1,1-Trichloroethane	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
1,2-Dichloroethane	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
1,1-Dichloropropene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Benzene	< 25	< 25	< 25	< 25	< 25	071S ^T	ug/kg	25
Carbon Tetrachloride	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Dibromomethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,2-Dichloropropane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Trichloroethene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Bromodichloromethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Cis-1,3 Dichloropropene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Trans-1,3 Dichloropropene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,1,2-Trichloroethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25

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^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK A5	TP RSK A6	TP RSK E1	TP RSK 28	TP RSK 29	Method No	Units	LOD
Sample Depth (m)	0.3-0.7	0.8	0.9	0.3-0.4	0.3-0.7			
Date Sampled	31/03/08	31/03/08	31/03/08	31/03/08	31/03/08			
Date Scheduled	07/04/08	07/04/08	07/04/08	07/04/08	07/04/08			
Laboratory Reference No	308889	308891	308893	308903	308905			
Analysis								
** VOC SUITE Cont.. **								
Toluene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
1,3 -Dichloropropane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Dibromochloromethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,2-Dibromoethane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Tetrachloroethene	< 25	< 25	< 25	< 25	< 25	071S	ug/kg	25
1,1,1,2-Tetrachloroethane	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
Chlorobenzene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Ethyl Benzene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
m,p-Xylenes	< 50	< 50	< 50	< 50	< 50	071S [†]	ug/kg	50
Bromoform	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Styrene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
o-Xylene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
1,1,2,2 Tetrachloroethane	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
1,2,3-Trichloropropane	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Isopropylbenzene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
Bromobenzene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
n-propylbenzene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
2-Chlorotoluene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
4-Chlorotoluene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,3,5 Trimethylbenzene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
tert-butylbenzene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,2,4 Trimethylbenzene	49	29	< 25	< 25	< 25	071S [†]	ug/kg	25
sec-butylbenzene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,3 Dichlorobenzene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
1,4 Dichlorobenzene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
4-Isopropyltoluene	< 25	< 25	< 25	< 25	< 25	071S TM	ug/kg	25
1,2 Dichlorobenzene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
n-butylbenzene	< 25	< 25	< 25	< 25	< 25	071S [†]	ug/kg	25
1,2,4-Trichlorobenzene	< 25	< 25	< 25	< 25	< 25	071S	ug/kg	25

[†] ISO 17025 accredited.

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ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK 30					Method No	Units	LOD
Sample Depth (m)	0.2-0.6							
Date Sampled	31/03/08							
Date Scheduled	07/04/08							
Laboratory Reference No	308907							
Analysis								
** VOC SUITE **								
Dichlorodifluoromethane	< 25					071S TM	ug/kg	25
Chloromethane	< 25					071S TM	ug/kg	25
Vinyl Chloride	< 25					071S ^T	ug/kg	25
Bromomethane	< 25					071S	ug/kg	25
Chloroethane	< 25					071S TM	ug/kg	25
Trichlorofluoromethane	< 25					071S TM	ug/kg	25
1,1-Dichloroethene	< 25					071S	ug/kg	25
112-Trichloro-122-Trifluoroethane	< 25					071S ^T	ug/kg	25
Dichloromethane	< 50					071S ^T	ug/kg	50
Carbon Disulfide	< 25					071S TM	ug/kg	25
Trans-1,2 Dichloroethene	< 25					071S	ug/kg	25
MTBE	< 25					071S ^T	ug/kg	25
1,1 -Dichloroethane	< 25					071S ^T	ug/kg	25
Cis-1,2 Dichloroethene	< 25					071S TM	ug/kg	25
Bromochloromethane	< 25					071S TM	ug/kg	25
Chloroform	< 25					071S TM	ug/kg	25
2,2-Dichloropropane	< 25					071S TM	ug/kg	25
1,1,1-Trichloroethane	< 25					071S ^T	ug/kg	25
1,2-Dichloroethane	< 25					071S ^T	ug/kg	25
1,1-Dichloropropene	< 25					071S TM	ug/kg	25
Benzene	< 25					071S ^T	ug/kg	25
Carbon Tetrachloride	< 25					071S TM	ug/kg	25
Dibromomethane	< 25					071S TM	ug/kg	25
1,2-Dichloropropane	< 25					071S TM	ug/kg	25
Trichloroethene	< 25					071S TM	ug/kg	25
Bromodichloromethane	< 25					071S TM	ug/kg	25
Cis-1,3 Dichloropropene	< 25					071S TM	ug/kg	25
Trans-1,3 Dichloropropene	< 25					071S TM	ug/kg	25
1,1,2-Trichloroethane	< 25					071S TM	ug/kg	25

^T ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP RSK 30					Method No	Units	LOD
Sample Depth (m)	0.2-0.6							
Date Sampled	31/03/08							
Date Scheduled	07/04/08							
Laboratory Reference No	308907							
Analysis								
** VOC SUITE Cont. **								
Toluene	< 25					071S ^I	ug/kg	25
1,3 -Dichloropropane	< 25					071S TM	ug/kg	25
Dibromochloromethane	< 25					071S TM	ug/kg	25
1,2-Dibromoethane	< 25					071S TM	ug/kg	25
Tetrachloroethene	< 25					071S	ug/kg	25
1,1,1,2-Tetrachloroethane	< 25					071S ^I	ug/kg	25
Chlorobenzene	< 25					071S TM	ug/kg	25
Ethyl Benzene	< 25					071S ^I	ug/kg	25
m,p-Xylenes	< 50					071S ^I	ug/kg	50
Bromoform	< 25					071S TM	ug/kg	25
Styrene	< 25					071S TM	ug/kg	25
o-Xylene	< 25					071S ^I	ug/kg	25
1,1,2,2 Tetrachloroethane	< 25					071S ^I	ug/kg	25
1,2,3-Trichloropropane	< 25					071S TM	ug/kg	25
Isopropylbenzene	< 25					071S TM	ug/kg	25
Bromobenzene	< 25					071S TM	ug/kg	25
n-propylbenzene	< 25					071S TM	ug/kg	25
2-Chlorotoluene	< 25					071S TM	ug/kg	25
4-Chlorotoluene	< 25					071S TM	ug/kg	25
1,3,5 Trimethylbenzene	< 25					071S ^I	ug/kg	25
tert-butylbenzene	< 25					071S TM	ug/kg	25
1,2,4 Trimethylbenzene	< 25					071S ^I	ug/kg	25
sec-butylbenzene	< 25					071S TM	ug/kg	25
1,3 Dichlorobenzene	< 25					071S ^I	ug/kg	25
1,4 Dichlorobenzene	< 25					071S ^I	ug/kg	25
4-Isopropyltoluene	< 25					071S TM	ug/kg	25
1,2 Dichlorobenzene	< 25					071S ^I	ug/kg	25
n-butylbenzene	< 25					071S ^I	ug/kg	25
1,2,4-Trichlorobenzene	< 25					071S	ug/kg	25

^I ISO 17025 accredited.

TM MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-48649
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

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EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-48649
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
308883	TP RSK A1	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
308884	TP RSK A1	2.7	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
308885	TP RSK A2	0.6-0.7	31/03/08	The sample chromatogram exhibits a trace primarily consistent with a diesel standard.
308886	TP RSK A2	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
308887	TP RSK A3	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
308888	TP RSK A4	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
308889	TP RSK A5	0.3-0.7	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40, overtake by a series of peaks consistent with PAHs and several peaks unidentifiable by this analysis.
308890	TP RSK A5	1.0	31/03/08	The sample chromatogram exhibits too little GC-FID amenable material to provide qualitative analysis.

ALcontrol LABORATORIES

EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-48649
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
308891	TP RSK A6	0.8	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40, overlain by a series of peaks consistent with PAHs and several peaks unidentifiable by this analysis.
308892	TP RSK A6	1.2	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C12 to C40.
308893	TP RSK E1	0.9	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40.
308894	TP RSK E1	2.5	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
308895	TP RSK E3	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.
308896	TP RSK E3	2.6	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C40.
308897	TP RSK E4	0.9	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to beyond C40.
308898	TP RSK E4	2.3	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C12 to beyond C40.

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EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-48649
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
308899	TP RSK 25	0.5	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.
308900	TP RSK 25	1.5	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.
308901	TP RSK 26	0.2	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40.
308902	TP RSK 26	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to C40.
308904	TP RSK 28	1.0	31/03/08	The sample chromatogram exhibits a trace primarily consistent with a degraded diesel.
308905	TP RSK 29	0.3-0.7	31/03/08	The sample chromatogram exhibits a trace primarily consistent with a partially degraded diesel.
308906	TP RSK 29	1.0	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to C40.
308907	TP RSK 30	0.2-0.6	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40, overlain by several peaks unidentifiable by this analysis.

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EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-48649
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
308908	TP RSK 30	0.8	31/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

* MCERTS accredited for sand, loam and clay.

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Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

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^N MCERTS accredited for sand, loam and clay.

‡ Limits raised due to matrix interference.

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Table Of Results

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

± Limits raised due to matrix interference.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^m MCERTS accredited for sand, loam and clay.

± Limits raised due to matrix interference.

ALcontrol LABORATORIES

Job Number : 08-48649
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

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± Limits raised due to matrix interference.

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Table Of Results - Appendix

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Job Number : 08-48649

Project Code: 50369

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
071S	In-house method based on EPA624 "Volatile Organic Compounds in Soils/Sludges"	Determination of volatile organic compounds in soil samples by headspace GC-MS	W
068S	In-house method	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) including BTEX and MTBE compounds by Headspace GC-FID (VPH).	W
022S	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
080L	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	W
070S	In-house method	Determination of hexane/acetone extractable hydrocarbons in soil by gas chromatography with flame ionisation detection. Note: UKAS accreditation only applies to C10-C40 and excludes other carbon banding.	W
022L	In-house method	Determination of PAH compounds in aqueous samples by pentane extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
084S	In-house method referencing BS1377: Part 3: 1990 and Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D
074	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 2:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D

ALcontrol Technichem

Table Of Results - Appendix

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Job Number : 08-48649

Project Code: 50369

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D
001a	In-house method based on HSG 248	Visual screening of soil samples for fibrous material requiring further identification according to method 001 (note for samples > approximately 1kg it may be necessary to sub-sample prior to screening)	

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Debbie Lee
Tamdown Regeneration Ltd
1 Tamdown Way
Braintree
Essex
CM7 2QL

18 March 2008

TEST REPORT

Our Report Number: 08-47043

Your Order Reference: Instructions of 29/02/2008

11 soil samples submitted for analysis on 29/02/2008

Project Name: Kings Lynn

Laboratory analysis started on 05/03/2008

All laboratory analysis completed by 18 March 2008

Rhys Ashton
Project Co-Ordinator
ALCONTROL LABORATORIES

Sharon Googh
Project Co-Ordinator
ALCONTROL LABORATORIES

Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

Matrix: Soil
Project Name: Kings Lynn

Matrix: Soil
Project Name: Kings Lynn

Matrix: Soil
Project Name: Kings Lynn

Matrix: Soil
Project Name: Kings Lynn

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Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

³ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

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Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^N MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

* MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^N MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK13	TPRSK13	TPRSK14	TPRSK15	TPRSK15	Method No	Units	LOD
Sample Depth (m)	0.5	2.1	0.7	0.3	1.5			
Date Sampled	27/02/08	27/02/08	27/02/08	27/02/08	27/02/08			
Date Scheduled	29/02/08	29/02/08	29/02/08	29/02/08	29/02/08			
Laboratory Reference No	301182	301183	301184	301185	301186			
Analysis								
** CWG SUITE **								
Aliphatic C5-C6	0.02	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C6-C8	0.02	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C8-C10	0.06	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C10-C12	0.22	< 0.01	< 0.01	0.02	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C12-C16	58	1.1	< 1	6.5	2.0	CWGS ^I	mg/kg	1
Aliphatic >C16-C21	170	4.4	3.7	33	3.5	CWGS ^I	mg/kg	1
Aliphatic >C21-C35	1000	6.2	5.8	540	8.3	CWGS ^I	mg/kg	5
Total Aliphatics (C5-C35)	1300	12	9.5	580	14	CWGS	mg/kg	5
Aromatic C6-C7	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C7-C8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C8-C10	0.09	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C10-C12	0.33	< 0.01	< 0.01	0.02	< 0.01	CWGS	mg/kg	0.01
Aromatic >C12-C16	9.2	1.2	< 1	7.5	1.9	CWGS ^I	mg/kg	1
Aromatic >C16-C21	27	2.8	1.7	16	3.2	CWGS ^I	mg/kg	1
Aromatic >C21-C35	400	< 5	< 5	150	7.7	CWGS ^I	mg/kg	5
Total Aromatics (C5-C35)	440	< 5	< 5	180	13	CWGS	mg/kg	5
Volatile Hydrocarbons (C5-C12)	0.73	< 0.01	< 0.01	0.04	< 0.01	CWGS	mg/kg	0.01
Extractable Hydrocarbons (C12-C35)	1700	16	11	750	27	CWGS	mg/kg	5
Total Hydrocarbons (C5-C35)	1700	16	11	750	27	CWGS	mg/kg	5
MTBE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
Benzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
Toluene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
Ethylbenzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
m,p-Xylenes	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
o-Xylene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01
1,2,4-Trimethylbenzene	0.015	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{IV}	mg/kg	0.01

^I ISO 17025 accredited.

^{IV} MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK16	TPRSK17	TPRSK17	TPRSK18	TPRSK18	Method No	Units	LOD
Sample Depth (m)	0.9	0.7	1.0	0.6	1.0			
Date Sampled	28/02/08	28/02/08	28/02/08	28/02/08	28/02/08			
Date Scheduled	29/02/08	29/02/08	29/02/08	29/02/08	29/02/08			
Laboratory Reference No	301187	301188	301189	301190	301191			
Analysis								
** CWG SUITE **								
Aliphatic C5-C6	0.02	0.15	0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C6-C8	0.02	0.04	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C8-C10	0.04	0.59	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C10-C12	0.08	0.12	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C12-C16	3.4	3.0	1.7	5.2	1.4	CWGS ¹	mg/kg	1
Aliphatic >C16-C21	6.8	14	4.4	7.2	2.8	CWGS ¹	mg/kg	1
Aliphatic >C21-C35	13	73	13	13	6.7	CWGS ¹	mg/kg	5
Total Aliphatics (C5-C35)	24	90	19	25	11	CWGS	mg/kg	5
Aromatic C6-C7	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C7-C8	< 0.01	0.02	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C8-C10	0.08	4.0	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C10-C12	0.12	0.17	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C12-C16	2.9	2.8	2.4	15	2.1	CWGS ¹	mg/kg	1
Aromatic >C16-C21	4.3	12	4.5	15	3.1	CWGS ¹	mg/kg	1
Aromatic >C21-C35	8.5	44	10	20	7.1	CWGS ¹	mg/kg	5
Total Aromatics (C5-C35)	16	64	17	49	12	CWGS	mg/kg	5
Volatile Hydrocarbons (C5-C12)	0.36	5.1	0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Extractable Hydrocarbons (C12-C35)	39	150	36	74	23	CWGS	mg/kg	5
Total Hydrocarbons (C5-C35)	40	150	36	74	23	CWGS	mg/kg	5
MTBE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
Benzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
Toluene	< 0.010	0.021	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
Ethylbenzene	< 0.010	0.31	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
m,p-Xylenes	0.011	2.0	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
o-Xylene	< 0.010	0.87	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
1,3,5-Trimethylbenzene	0.011	0.041	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01
1,2,4-Trimethylbenzene	0.035	0.13	< 0.010	< 0.010	< 0.010	CWGS ^{1M}	mg/kg	0.01

¹ ISO 17025 accredited.

^{1M} MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK17	TPRSK17				Method No	Units	LOD
Sample Depth (m)	0.7	1.0						
Date Sampled	28/02/08	28/02/08						
Date Scheduled	29/02/08	29/02/08						
Laboratory Reference No	301188	301189						
Analysis								
** VOC SUITE **								
Dichlorodifluoromethane	< 25	< 25				071S TM	ug/kg	25
Chloromethane	< 25	< 25				071S TM	ug/kg	25
Vinyl Chloride	< 25	< 25				071S ^I	ug/kg	25
Bromomethane	< 25	< 25				071S	ug/kg	25
Chloroethane	< 25	< 25				071S TM	ug/kg	25
Trichlorofluoromethane	< 25	< 25				071S TM	ug/kg	25
1,1-Dichloroethene	< 25	< 25				071S	ug/kg	25
112-Trichloro-122-Trifluoroethane	< 25	< 25				071S ^I	ug/kg	25
Dichloromethane	< 50	< 50				071S ^I	ug/kg	50
Carbon Disulfide	< 25	< 25				071S TM	ug/kg	25
Trans-1,2 Dichloroethene	< 25	< 25				071S	ug/kg	25
MTBE	< 25	< 25				071S ^I	ug/kg	25
1,1 -Dichloroethane	< 25	< 25				071S ^I	ug/kg	25
Cis-1,2 Dichloroethene	< 25	< 25				071S TM	ug/kg	25
Bromochloromethane	< 25	< 25				071S TM	ug/kg	25
Chloroform	< 25	< 25				071S TM	ug/kg	25
2,2-Dichloropropane	< 25	< 25				071S TM	ug/kg	25
1,1,1-Trichloroethane	< 25	< 25				071S ^I	ug/kg	25
1,2-Dichloroethane	< 25	< 25				071S ^I	ug/kg	25
1,1-Dichloropropene	< 25	< 25				071S TM	ug/kg	25
Benzene	< 25	< 25				071S ^I	ug/kg	25
Carbon Tetrachloride	< 25	< 25				071S TM	ug/kg	25
Dibromomethane	< 25	< 25				071S TM	ug/kg	25
1,2-Dichloropropane	< 25	< 25				071S TM	ug/kg	25
Trichloroethene	< 25	< 25				071S TM	ug/kg	25
Bromodichloromethane	< 25	< 25				071S TM	ug/kg	25
Cis-1,3 Dichloropropene	< 25	< 25				071S TM	ug/kg	25
Trans-1,3 Dichloropropene	< 25	< 25				071S TM	ug/kg	25
1,1,2-Trichloroethane	< 25	< 25				071S TM	ug/kg	25

^I ISO 17025 accredited.

TM MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK17	TPRSK17				Method No	Units	LOD
Sample Depth (m)	0.7	1.0						
Date Sampled	28/02/08	28/02/08						
Date Scheduled	29/02/08	29/02/08						
Laboratory Reference No	301188	301189						
Analysis								
** VOC SUITE Cont. **								
Toluene	30	< 25				071S ^I	ug/kg	25
1,3 -Dichloropropane	< 25	< 25				071S TM	ug/kg	25
Dibromochloromethane	< 25	< 25				071S TM	ug/kg	25
1,2-Dibromoethane	< 25	< 25				071S TM	ug/kg	25
Tetrachloroethene	< 25	< 25				071S	ug/kg	25
1,1,1,2-Tetrachloroethane	< 25	< 25				071S ^I	ug/kg	25
Chlorobenzene	< 25	< 25				071S TM	ug/kg	25
Ethyl Benzene	500	< 25				071S ^I	ug/kg	25
m,p-Xylenes	3200	< 50				071S ^I	ug/kg	50
Bromoform	< 25	< 25				071S TM	ug/kg	25
Styrene	< 25	< 25				071S TM	ug/kg	25
o-Xylene	1300	< 25				071S ^I	ug/kg	25
1,1,2,2 Tetrachloroethane	< 25	< 25				071S ^I	ug/kg	25
1,2,3-Trichloropropane	< 25	< 25				071S TM	ug/kg	25
Isopropylbenzene	< 25	< 25				071S TM	ug/kg	25
Bromobenzene	< 25	< 25				071S TM	ug/kg	25
n-propylbenzene	41	< 25				071S TM	ug/kg	25
2-Chlorotoluene	< 25	< 25				071S TM	ug/kg	25
4-Chlorotoluene	< 25	< 25				071S TM	ug/kg	25
1,3,5 Trimethylbenzene	110	< 25				071S ^I	ug/kg	25
tert-butylbenzene	< 25	< 25				071S TM	ug/kg	25
1,2,4 Trimethylbenzene	330	< 25				071S ^I	ug/kg	25
sec-butylbenzene	< 25	< 25				071S TM	ug/kg	25
1,3 Dichlorobenzene	< 25	< 25				071S ^I	ug/kg	25
1,4 Dichlorobenzene	< 25	< 25				071S ^I	ug/kg	25
4-Isopropyltoluene	< 25	< 25				071S TM	ug/kg	25
1,2 Dichlorobenzene	< 25	< 25				071S ^I	ug/kg	25
n-butylbenzene	< 25	< 25				071S ^I	ug/kg	25
1,2,4-Trichlorobenzene	< 25	< 25				071S	ug/kg	25

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Table Of Results

Job Number : 08-47043
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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^M MCERTS accredited for sand, loam and clay.

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Job Number : 08-47043
Matrix : Leachate

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^x MCERTS accredited for sand, loam and clay.

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Table Of Results - Appendix

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Job Number : 08-47043

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
071S	In-house method based on EPA624 "Volatile Organic Compounds in Soils/Sludges"	Determination of volatile organic compounds in soil samples by headspace GC-MS	W
022S	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
CWGS	In-house method based on "Total Petroleum Hydrocarbon Criteria Working Group" series, 1998-9	Determination of "CWG" banded petroleum hydrocarbons in soil samples using a combination of headspace GC-FID (C5-C12) and hexane:acetone extraction / silica-alumina aliphatic - aromatic split / GC-FID (C12-C35) techniques with banding by comparison to alkane standards	W
080L	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry". HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	W
084S	In-house method referencing BS1377: Part 3: 1990 and Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D
074	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 2:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D
025a	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of hydrochloric acid soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D

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Table Of Results - Appendix

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Job Number : 08-47043

Summary of methods contained within report :			Wet/Dry Analysis
Method No.	Reference	Description	
001a	In-house method based on HSG 248	Visual screening of soil samples for fibrous material requiring further identification according to method 001 (note for samples > approximately 1kg it may be necessary to sub-sample prior to screening)	

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Debbie Lee
Tamdown Regeneration Ltd
1 Tamdown Way
Braintree
Essex
CM7 2QL

11 April 2008

TEST REPORT

Our Report Number: 08-47824

Your Order Reference: RP/R111/39

16 soil samples submitted for analysis on 20/03/2008

Project Name: Kings Lynn

Project Code: J0369

Laboratory analysis started on 02/04/2008

All laboratory analysis completed by 11 April 2008

Rexona Rahman
Analytical Reporting Manager
ALCONTROL LABORATORIES

Rhys Ashton
Project Co-Ordinator
ALCONTROL LABORATORIES

Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

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Sample Description

Matrix: Soil
Project Name: Kings Lynn

Job Number: 08-47824
Client: Tamdown Regeneration Ltd
Project Code: J0369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	Sample Description
307029	TPRSK19	0.6	17/03/08	Brown sandy clay with gravel
307030	TPRSK19	2	17/03/08	Brown sandy clay with gravel
307031	TPRSK20	1	17/03/08	Brown sandy clay
307032	TPRSK20	3	17/03/08	Black sandy clay
307033	TPRSK21	0.4	17/03/08	Brown sandy clay with gravel
307034	TPRSK21	2	17/03/08	Brown sandy clay with vegetation
307035	TPRSK23	1	18/03/08	Brown sandy clay
307036	TPRSK23	2.5	18/03/08	Dark grey sandy clay
307037	TPRSKC1	1.2-2.1	18/03/08	Brown sandy clay
307038	TPRSKC1	2.1-3.4	18/03/08	Light grey sandy clay
307039	TPRSK6	1.2-2.5	18/03/08	Brown sandy clay
307040	TPRSK6	3.4	18/03/08	Dark brown sandy clay
307041	TP2(LF)	0.5-3.5	17/03/08	Dark brown sandy clay with gravel
307042	TP3(LF)	0.8	17/03/08	Black sandy clay with coal / coke
307043	TP4(LF)	0.29-3.5	17/03/08	Brown sand with gravel
307044	TP7(LF)	1.5	17/03/08	Brown sandy clay

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK19	TPRSK19	TPRSK20	TPRSK20	TPRSK21	Method No	Units	LOD
Sample Depth (m)	0.6	2	1	3	0.4			
Date Sampled	17/03/08	17/03/08	17/03/08	17/03/08	17/03/08			
Date Scheduled	20/03/08	20/03/08	20/03/08	20/03/08	20/03/08			
Laboratory Reference No	307029	307030	307031	307032	307033			
Analysis								
Moisture Content (Wet Weight)	19.4	23.9	21.8	72.8	25.3		%	0.1
Moisture Content (Dry Weight)	24.1	31.4	27.9	267	33.8		%	0.1
Asbestos (Screen)	-	-	-	-	-	001a		
Arsenic	15	9.8	13	15	14	069S TM	mg/kg	3
Barium	310	88	64	43	400	069S TM	mg/kg	10
Beryllium	5.3	1.1	0.8	< 0.5	5.9	069S TM	mg/kg	0.5
Boron (W/S)	1.8	1.0	3.0	120	0.8	016S TM	mg/kg	0.5
Cadmium	0.7	< 0.5	< 0.5	< 0.5	0.5	069S TM	mg/kg	0.5
Chromium	39	25	28	< 10	59	069S TM	mg/kg	10
Copper	72	21	11	< 5	74	069S TM	mg/kg	5
Lead	140	31	28	11	57	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	0.7	< 0.6	069S TM	mg/kg	0.6
Nickel	39	20	22	< 4	58	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO ₄	0.20	0.98	0.08	5.4	0.09	074 TM	g/l	0.02
W/S Sulphate as SO ₄ (5:1)	-	-	-	-	-	074A	mg/kg	100
Vanadium	110	46	46	7.8	99	069S TM	mg/kg	3
Zinc	150	65	63	11	94	069S TM	mg/kg	10
Total Cyanide	-	-	-	-	-	061S TM	mg/kg	1
pH	9.4	10.1	8.4	6.5	9.2	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	-	068S TM	mg/kg	0.01

¹ ISO 17025 accredited.

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK21	TPRSK23	TPRSK23	TPRSKC1	TPRSKC1	Method No	Units	LOD
Sample Depth (m)	2	1	2.5	1.2-2.1	2.1-3.4			
Date Sampled	17/03/08	18/03/08	18/03/08	18/03/08	18/03/08			
Date Scheduled	20/03/08	20/03/08	20/03/08	20/03/08	20/03/08			
Laboratory Reference No	307034	307035	307036	307037	307038			
Analysis								
Moisture Content (Wet Weight)	25.1	20.6	36.0	27.4	26.8		%	0.1
Moisture Content (Dry Weight)	33.5	25.9	56.2	37.8	36.6		%	0.1
Asbestos (Screen)	-	-	-	-	-	001a		
Arsenic	14	6.4	27	-	-	069S TM	mg/kg	3
Barium	97	82	53	-	-	069S TM	mg/kg	10
Beryllium	1.0	0.7	1.4	-	-	069S TM	mg/kg	0.5
Boron (W/S)	1.6	2.2	5.5	-	-	016S TM	mg/kg	0.5
Cadmium	< 0.5	< 0.5	< 0.5	-	-	069S TM	mg/kg	0.5
Chromium	29	23	43	-	-	069S TM	mg/kg	10
Copper	13	9.1	16	-	-	069S TM	mg/kg	5
Lead	35	25	36	-	-	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	-	-	069S TM	mg/kg	0.6
Nickel	21	18	37	-	-	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	-	-	069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.04	0.06	0.67	-	-	074 TM	g/l	0.02
W/S Sulphate as SO4 (5:1)	-	-	-	-	-	074A	mg/kg	100
Vanadium	47	32	70	-	-	069S TM	mg/kg	3
Zinc	270	59	98	-	-	069S TM	mg/kg	10
Total Cyanide	-	-	-	-	-	061S TM	mg/kg	1
pH	8.4	8.9	8.5	-	-	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	068S TM	mg/kg	0.01

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² MCERTS accredited for sand, loam and clay.

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Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK6	TPRSK6	TP2(LF)	TP3(LF)	TP4(LF)	Method No	Units	LOD
Sample Depth (m)	1.2-2.5	3.4	0.5-3.5	0.8	0.29-3.5			
Date Sampled	18/03/08	18/03/08	17/03/08	17/03/08	17/03/08			
Date Scheduled	20/03/08	20/03/08	20/03/08	20/03/08	20/03/08			
Laboratory Reference No	307039	307040	307041	307042	307043			
Analysis								
Moisture Content (Wet Weight)	26.3	73.2	35.3	33.6	15.4		%	0.1
Moisture Content (Dry Weight)	35.7	273	54.6	50.7	18.3		%	0.1
Asbestos (Screen)	-	-	Absent	Absent	Absent	001a		
Arsenic	15	< 3	16	-	10	069S TM	mg/kg	3
Barium	91	59	380	-	820	069S TM	mg/kg	10
Beryllium	0.8	< 0.5	1.1	-	0.6	069S TM	mg/kg	0.5
Boron (W/S)	2.5	31	5.4	-	< 0.5	016S TM	mg/kg	0.5
Cadmium	< 0.5	< 0.5	0.9	-	0.8	069S TM	mg/kg	0.5
Chromium	26	< 10	38	-	17	069S TM	mg/kg	10
Copper	12	< 5	92	-	9.8	069S TM	mg/kg	5
Lead	29	< 10	100	-	22	069S TM	mg/kg	10
Mercury	< 0.6	0.7	< 0.6	-	< 0.6	069S TM	mg/kg	0.6
Nickel	21	< 4	24	-	11	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	-	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.09	-	1.0	0.89	-	074 TM	g/l	0.02
W/S Sulphate as SO4 (5:1)	-	2170	-	-	-	074A	mg/kg	100
Vanadium	42	4.4	62	-	30	069S TM	mg/kg	3
Zinc	63	< 10	790	-	59	069S TM	mg/kg	10
Total Cyanide	-	-	< 1	-	< 1	061S TM	mg/kg	1
pH	9.6	9.4	8.3	8.7	12.1	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	< 0.01	-	< 0.01	068S TM	mg/kg	0.01

¹ ISO 17025 accredited.

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP7(LF)					Method No	Units	LOD
Sample Depth (m)	1.5							
Date Sampled	17/03/08							
Date Scheduled	20/03/08							
Laboratory Reference No	307044							
Analysis								
Moisture Content (Wet Weight)	24.8						%	0.1
Moisture Content (Dry Weight)	33.0						%	0.1
Asbestos (Screen)	-					001a		
Arsenic	7.5					069S TM	mg/kg	3
Barium	90					069S TM	mg/kg	10
Beryllium	0.8					069S TM	mg/kg	0.5
Boron (W/S)	2.8					016S TM	mg/kg	0.5
Cadmium	< 0.5					069S TM	mg/kg	0.5
Chromium	25					069S TM	mg/kg	10
Copper	13					069S TM	mg/kg	5
Lead	27					069S TM	mg/kg	10
Mercury	< 0.6					069S TM	mg/kg	0.6
Nickel	18					069S TM	mg/kg	4
Selenium	< 2.5					069S TM	mg/kg	2.5
W/S Sulphate as SO4	-					074 TM	g/l	0.02
W/S Sulphate as SO4 (5:1)	-					074A	mg/kg	100
Vanadium	33					069S TM	mg/kg	3
Zinc	62					069S TM	mg/kg	10
Total Cyanide	-					061S TM	mg/kg	1
pH	-					084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01					068S TM	mg/kg	0.01
Benzene	< 0.01					068S TM	mg/kg	0.01
Toluene	< 0.01					068S TM	mg/kg	0.01
Ethylbenzene	< 0.01					068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01					068S TM	mg/kg	0.01
o-Xylene	< 0.01					068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01					068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01					068S TM	mg/kg	0.01

¹ ISO 17025 accredited.

² MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

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[†] ISO 17025 accredited.

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ALcontrol LABORATORIES

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP4(LF)	TP7(LF)				Method No	Units	LOD
Sample Depth (m)	0.29-3.5	1.5						
Date Sampled	17/03/08	17/03/08						
Date Scheduled	20/03/08	20/03/08						
Laboratory Reference No	307043	307044						
Analysis								
** VOC SUITE **								
Dichlorodifluoromethane	< 25	< 25				071S TM	ug/kg	25
Chloromethane	< 25	< 25				071S TM	ug/kg	25
Vinyl Chloride	< 25	< 25				071S ^T	ug/kg	25
Bromomethane	< 25	< 25				071S	ug/kg	25
Chloroethane	< 25	< 25				071S TM	ug/kg	25
Trichlorofluoromethane	< 25	< 25				071S TM	ug/kg	25
1,1-Dichloroethene	< 25	< 25				071S	ug/kg	25
112-Trichloro-122-Trifluoroethane	< 25	< 25				071S ^T	ug/kg	25
Dichloromethane	< 50	< 50				071S ^T	ug/kg	50
Carbon Disulfide	< 25	< 25				071S TM	ug/kg	25
Trans-1,2 Dichloroethene	< 25	< 25				071S	ug/kg	25
MTBE	< 25	< 25				071S ^T	ug/kg	25
1,1 -Dichloroethane	< 25	< 25				071S ^T	ug/kg	25
Cis-1,2 Dichloroethene	< 25	< 25				071S TM	ug/kg	25
Bromochloromethane	< 25	< 25				071S TM	ug/kg	25
Chloroform	< 25	< 25				071S TM	ug/kg	25
2,2-Dichloropropane	< 25	< 25				071S TM	ug/kg	25
1,1,1-Trichloroethane	< 25	< 25				071S ^T	ug/kg	25
1,2-Dichloroethane	< 25	< 25				071S ^T	ug/kg	25
1,1-Dichloropropene	< 25	< 25				071S TM	ug/kg	25
Benzene	< 25	< 25				071S ^T	ug/kg	25
Carbon Tetrachloride	< 25	< 25				071S TM	ug/kg	25
Dibromomethane	< 25	< 25				071S TM	ug/kg	25
1,2-Dichloropropane	< 25	< 25				071S TM	ug/kg	25
Trichloroethene	< 25	< 25				071S TM	ug/kg	25
Bromodichloromethane	< 25	< 25				071S TM	ug/kg	25
Cis-1,3 Dichloropropene	< 25	< 25				071S TM	ug/kg	25
Trans-1,3 Dichloropropene	< 25	< 25				071S TM	ug/kg	25
1,1,2-Trichloroethane	< 25	< 25				071S TM	ug/kg	25

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TP4(LF)	TP7(LF)				Method No	Units	LOD
Sample Depth (m)	0.29-3.5	1.5						
Date Sampled	17/03/08	17/03/08						
Date Scheduled	20/03/08	20/03/08						
Laboratory Reference No	307043	307044						
Analysis								
** VOC SUITE Cont.. **								
Toluene	< 25	< 25				071S ^I	ug/kg	25
1,3 -Dichloropropane	< 25	< 25				071S TM	ug/kg	25
Dibromochloromethane	< 25	< 25				071S TM	ug/kg	25
1,2-Dibromoethane	< 25	< 25				071S TM	ug/kg	25
Tetrachloroethene	< 25	< 25				071S	ug/kg	25
1,1,1,2-Tetrachloroethane	< 25	< 25				071S ^I	ug/kg	25
Chlorobenzene	< 25	< 25				071S TM	ug/kg	25
Ethyl Benzene	< 25	< 25				071S ^I	ug/kg	25
m,p-Xylenes	< 50	< 50				071S ^I	ug/kg	50
Bromoform	< 25	< 25				071S TM	ug/kg	25
Styrene	< 25	< 25				071S TM	ug/kg	25
o-Xylene	< 25	< 25				071S ^I	ug/kg	25
1,1,2,2 Tetrachloroethane	< 25	< 25				071S ^I	ug/kg	25
1,2,3-Trichloropropane	< 25	< 25				071S TM	ug/kg	25
Isopropylbenzene	< 25	< 25				071S TM	ug/kg	25
Bromobenzene	< 25	< 25				071S TM	ug/kg	25
n-propylbenzene	< 25	< 25				071S TM	ug/kg	25
2-Chlorotoluene	< 25	< 25				071S TM	ug/kg	25
4-Chlorotoluene	< 25	< 25				071S TM	ug/kg	25
1,3,5 Trimethylbenzene	< 25	< 25				071S ^I	ug/kg	25
tert-butylbenzene	< 25	< 25				071S TM	ug/kg	25
1,2,4 Trimethylbenzene	< 25	< 25				071S ^I	ug/kg	25
sec-butylbenzene	< 25	< 25				071S TM	ug/kg	25
1,3 Dichlorobenzene	< 25	< 25				071S ^I	ug/kg	25
1,4 Dichlorobenzene	< 25	< 25				071S ^I	ug/kg	25
4-Isopropyltoluene	< 25	< 25				071S TM	ug/kg	25
1,2 Dichlorobenzene	< 25	< 25				071S ^I	ug/kg	25
n-butylbenzene	< 25	< 25				071S ^I	ug/kg	25
1,2,4-Trichlorobenzene	< 25	< 25				071S	ug/kg	25

^I ISO 17025 accredited.

TM MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47824
Matrix : Soil
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-47824
Client: Tamdown Regeneration Ltd
Project Code: J0369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
307029	TPRSK19	0.6	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C12 to beyond C40.
307030	TPRSK19	2	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C11 to C40, overlain by a series of peaks eluting between C32 and C40 which require qualitative analysis by GC-MS for further identification.
307031	TPRSK20	1	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C40.
307032	TPRSK20	3	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.
307034	TPRSK21	2	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to beyond C40.
307035	TPRSK23	1	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to C40.
307036	TPRSK23	2.5	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
307037	TPRSK21	1.2-2.1	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C37.

ALcontrol LABORATORIES

EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-47824
Client: Tamdown Regeneration Ltd
Project Code: J0369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
307038	TPRSKC1	2.1-3.4	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C38.
307039	TPRSK6	1.2-2.5	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.
307040	TPRSK6	3.4	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C40.
307041	TP2(LF)	0.5-3.5	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40 overlain by a series of peaks unidentifiable by this analysis.
307043	TP4(LF)	0.29-3.5	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40, overlain by several peaks unidentifiable by this analysis.
307044	TP7(LF)	1.5	17/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C40.

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Job Number : 08-47824
Matrix : Leachate
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

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Job Number : 08-47824
Matrix : Leachate
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-47824
Matrix : Leachate
Project Code: J0369

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^N MCERTS accredited for sand, loam and clay.

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EPH Description

Matrix: Leachates
Project Name: Kings Lynn

Job Number: 08-47824
Client: Tamdown Regeneration Ltd
Project Code: J0369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
307034	TPRSK21	2	17/03/08	The sample chromatogram exhibits too little GC-FID amenable material to provide qualitative analysis.
307037	TPRSKC1	1.2-2.1	18/03/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to C32, overlain by several peaks unidentifiable by this analysis

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Table Of Results - Appendix

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Job Number : 08-47824

Project Code: J0369

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
071S	In-house method based on EPA624 "Volatile Organic Compounds in Soils/Sludges"	Determination of volatile organic compounds in soil samples by headspace GC-MS	W
068S	In-house method	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) including BTEX and MTBE compounds by Headspace GC-FID (VPH).	W
061S	In-house method based on Method 4500-CN, "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of cyanides and thiocyanate in soil samples by continuous flow colorimetry (Skalar)	W
022S	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
020S	In-house method based on Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of methanol/water based mobile phase extractable phenols in soil samples by HPLC with electrochemical detection	W
080L	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	W
072L	In-house method	Determination of cyclopentane extractable hydrocarbons in aqueous samples by large volume injection gas chromatography with flame ionisation detection. Note: UKAS accreditation only applies to C10-C40 and excludes other carbon banding.	W
070S	In-house method	Determination of hexane/acetone extractable hydrocarbons in soil by gas chromatography with flame ionisation detection. Note: UKAS accreditation only applies to C10-C40 and excludes other carbon banding.	W

ALcontrol Technichem

Table Of Results - Appendix

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Job Number : 08-47824

Project Code: J0369

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
022L	In-house method	Determination of PAH compounds in aqueous samples by pentane extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
084S	In-house method referencing BS1377: Part 3: 1990 and Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D
074	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 2:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D
074A	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 5:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
001a	In-house method based on HSG 248	Visual screening of soil samples for fibrous material requiring further identification according to method 001 (note for samples > approximately 1kg it may be necessary to sub-sample prior to screening)	

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Debbie Lee
Tamdown Regeneration Ltd
1 Tamdown Way
Braintree
Essex
CM7 2QL

02 May 2008

TEST REPORT

Our Report Number: 08-48926

Your Order Reference: RP/R111/39

17 soil samples submitted for analysis on 14/04/2008

Project Name: Kings Lynn

Laboratory analysis started on 17/04/2008

All laboratory analysis completed by 02 May 2008

Rexona Rahman
Analytical Reporting Manager
ALCONTROL LABORATORIES

Rhys Ashton
Project Co-Ordinator
ALCONTROL LABORATORIES

Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

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Sample Description

Job Number: 08-48926
Client: Tamdown Regeneration Ltd

Matrix: Soil
Project Name: Kings Lynn

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	Sample Description
310206	TPRSK 39	0.3	09/04/08	Brown clay with gravel
310207	TPRSK 40	0.7	09/04/08	Brown sand with gravel
310208	TPRSK 41	0.2	09/04/08	-
310209	TPRSK 41	0.8	09/04/08	Brown clay
310210	TPRSK 42	1.2	09/04/08	Brown sandy clay with gravel
310211	TPRSK 42	2.6	09/04/08	Brown clay
310212	TPRSK 43	0.6	10/04/08	*Black clinker / ash with gravel
310213	TPRSK 44	0.5	10/04/08	Brown sand
310214	TPRSK 44	1.9	10/04/08	Brown clay
310215	TPRSK 45	1.8	10/04/08	Brown clay
310216	TPRSK 45	2.2	10/04/08	Brown clay
310217	SP1 (A)	-	10/04/08	Brown sandy clay with gravel
310218	SP1 (B)	-	10/04/08	Brown clay with gravel and vegetation
310219	SP1 (C)	-	10/04/08	Brown sand with gravel
310220	SP1 (D)	-	10/04/08	Brown sandy clay with gravel and vegetation
310221	SP1 (E)	-	10/04/08	Brown sandy clay with gravel
310222	SP1 (F)	-	10/04/08	Brown sandy clay with gravel

*Denotes outside the scope of MCERTS accreditation since matrix not included in method validation.

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Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK 39	TPRSK 40	TPRSK 41	TPRSK 41	TPRSK 42	Method No	Units	LOD
Sample Depth (m)	0.3	0.7	0.2	0.8	1.2			
Date Sampled	09/04/08	09/04/08	09/04/08	09/04/08	09/04/08			
Date Scheduled	14/04/08	14/04/08	14/04/08	14/04/08	14/04/08			
Laboratory Reference No	310206	310207	310208	310209	310210			
Analysis								
Moisture Content (Dry Weight)	33.1	18.0	-	35.0	42.7		%	0.1
Moisture Content (Wet Weight)	24.9	15.2	-	25.9	29.9		%	0.1
Asbestos (Screen)	Absent	Absent	Absent	Absent	Absent	001a		
Arsenic	11	17	-	9.4	14	069S TM	mg/kg	3
Barium	46	110	-	110	220	069S TM	mg/kg	10
Beryllium	1.0	1.7	-	0.9	3.1	069S TM	mg/kg	0.5
Boron (W/S)	0.8	2.6	-	1.5	1.7	016S TM	mg/kg	0.5
Cadmium	< 0.5	< 0.5	-	< 0.5	< 0.5	069S TM	mg/kg	0.5
Chromium	32	33	-	27	22	069S TM	mg/kg	10
Copper	20	34	-	14	120	069S TM	mg/kg	5
Lead	26	79	-	30	130	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	-	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	26	28	-	22	25	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	-	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.54	1.0	-	0.25	0.09	074 TM	g/l	0.02
Vanadium	49	77	-	38	45	069S TM	mg/kg	3
Zinc	56	90	-	62	110	069S TM	mg/kg	10
pH	9.3	10.0	-	9.8	8.5	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
Benzene	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
Toluene	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
o-Xylene	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.01	-	< 0.01	< 0.01	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	0.025	< 0.01	-	0.027	0.066	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	< 0.01	< 0.01	-	< 0.01	0.099	068S	mg/kg	0.01
VPH Compounds (C5-C12)	0.026	< 0.01	-	0.028	0.17	068S	mg/kg	0.01

¹ ISO 17025 accredited.

* MCERTS accredited for sand, loam and clay.

‡ Limits raised due to matrix interference.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^N MCERTS accredited for sand, loam and clay.

‡ Limits raised due to matrix interference.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK 42	TPRSK 43	TPRSK 44	TPRSK 44	TPRSK 45	Method No	Units	LOD
Sample Depth (m)	2.6	0.6	0.5	1.9	1.8			
Date Sampled	09/04/08	10/04/08	10/04/08	10/04/08	10/04/08			
Date Scheduled	14/04/08	14/04/08	14/04/08	14/04/08	14/04/08			
Laboratory Reference No	310211	310212	310213	310214	310215			
Analysis								
Moisture Content (Dry Weight)	41.7	25.0	16.9	68.4	37.8		%	0.1
Moisture Content (Wet Weight)	29.5	20.0	14.4	40.6	27.4		%	0.1
Asbestos (Screen)	-	Absent	Absent	-	Absent	001a		
Arsenic	18	< 3	8.4	< 3	9.5	069S™	mg/kg	3
Barium	73	67	46	22	74	069S™	mg/kg	10
Beryllium	1.2	1.1	< 0.5	< 0.5	1.0	069S™	mg/kg	0.5
Boron (W/S)	3.1	< 0.5	0.6	2.0	2.3	016S™	mg/kg	0.5
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	069S™	mg/kg	0.5
Chromium	36	< 10	12	< 10	32	069S™	mg/kg	10
Copper	16	42	8.0	12	13	069S™	mg/kg	5
Lead	35	23	15	< 10	28	069S™	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	069S™	mg/kg	0.6
Nickel	29	32	5.9	< 4	27	069S™	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S™	mg/kg	2.5
W/S Sulphate as SO4	0.09	0.05	0.07	0.09	0.31	074™	g/l	0.02
Vanadium	54	3.3	25	5.0	49	069S™	mg/kg	3
Zinc	77	32	33	29	81	069S™	mg/kg	10
pH	8.2	7.9	8.7	8.8	10.5	084S™	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
Benzene	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
Toluene	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
Ethylbenzene	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
m,p-Xylenes	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
o-Xylene	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	< 0.100‡	< 0.01	< 0.01	< 0.01	068S™	mg/kg	0.01
VPH Compounds (C5-C10)	0.038	0.34	0.015	0.14	0.033	068S™	mg/kg	0.01
VPH Compounds (C10-C12)	0.013	0.21	< 0.01	0.11	< 0.01	068S	mg/kg	0.01
VPH Compounds (C5-C12)	0.041	0.54	0.020	0.25	0.042	068S	mg/kg	0.01

† ISO 17025 accredited.

* MCERTS accredited for sand, loam and clay.

‡ Limits raised due to matrix interference.

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Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^T ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

± Limits raised due to matrix interference.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	TPRSK 45	SP1 (A)	SP1 (B)	SP1 (C)	SP1 (D)	Method No	Units	LOD
Sample Depth (m)	2.2	-	-	-	-			
Date Sampled	10/04/08	10/04/08	10/04/08	10/04/08	10/04/08			
Date Scheduled	14/04/08	14/04/08	14/04/08	14/04/08	14/04/08			
Laboratory Reference No	310216	310217	310218	310219	310220			
Analysis								
Moisture Content (Dry Weight)	30.0	19.0	26.8	18.1	17.5		%	0.1
Moisture Content (Wet Weight)	23.1	16.0	21.2	15.3	14.9		%	0.1
Asbestos (Screen)	-	Absent	Absent	Absent	Absent	001a		
Arsenic	5.9	9.3	8.4	9.8	9.7	069S TM	mg/kg	3
Barium	96	97	92	79	78	069S TM	mg/kg	10
Beryllium	0.8	0.6	0.5	0.7	0.5	069S TM	mg/kg	0.5
Boron (W/S)	3.0	1.4	1.7	0.8	1.3	016S TM	mg/kg	0.5
Cadmium	< 0.5	< 0.5	0.8	< 0.5	0.7	069S TM	mg/kg	0.5
Chromium	27	14	16	23	18	069S TM	mg/kg	10
Copper	15	37	38	22	27	069S TM	mg/kg	5
Lead	36	30	31	27	31	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	21	10	10	13	12	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S TM	mg/kg	2.5
W/S Sulphate as SO4	0.12	0.42	0.46	0.35	0.13	074 TM	g/l	0.02
Vanadium	35	37	36	61	37	069S TM	mg/kg	3
Zinc	69	47	59	60	59	069S TM	mg/kg	10
pH	9.0	8.5	8.4	9.7	8.5	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
Benzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
Toluene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
o-Xylene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
VPH Compounds (C5-C12)	< 0.01	-	-	-	-	068S TM	mg/kg	0.01

[†] ISO 17025 accredited.

[×] MCERTS accredited for sand, loam and clay.

[‡] Limits raised due to matrix interference.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

‡ Limits raised due to matrix interference.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	SP1 (E)	SP1 (F)				Method No	Units	LOD
Sample Depth (m)	-	-						
Date Sampled	10/04/08	10/04/08						
Date Scheduled	14/04/08	14/04/08						
Laboratory Reference No	310221	310222						
Analysis								
Moisture Content (Dry Weight)	29.3	28.9					%	0.1
Moisture Content (Wet Weight)	22.7	22.4					%	0.1
Asbestos (Screen)	Absent	Absent				001a		
Arsenic	9.2	7.1				069S TM	mg/kg	3
Barium	73	91				069S TM	mg/kg	10
Beryllium	0.5	< 0.5				069S TM	mg/kg	0.5
Boron (W/S)	1.7	2.2				016S TM	mg/kg	0.5
Cadmium	0.7	0.8				069S TM	mg/kg	0.5
Chromium	14	12				069S TM	mg/kg	10
Copper	36	37				069S TM	mg/kg	5
Lead	27	27				069S TM	mg/kg	10
Mercury	< 0.6	< 0.6				069S TM	mg/kg	0.6
Nickel	8.1	8.3				069S TM	mg/kg	4
Selenium	< 2.5	< 2.5				069S TM	mg/kg	2.5
W/S Sulphate as SO ₄	0.41	0.71				074 TM	g/l	0.02
Vanadium	33	23				069S TM	mg/kg	3
Zinc	56	50				069S TM	mg/kg	10
pH	8.4	8.4				084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	-	-				068S TM	mg/kg	0.01
Benzene	-	-				068S TM	mg/kg	0.01
Toluene	-	-				068S TM	mg/kg	0.01
Ethylbenzene	-	-				068S TM	mg/kg	0.01
m,p-Xylenes	-	-				068S TM	mg/kg	0.01
o-Xylene	-	-				068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	-	-				068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	-	-				068S TM	mg/kg	0.01
VPH Compounds (C5-C10)	-	-				068S TM	mg/kg	0.01
VPH Compounds (C10-C12)	-	-				068S	mg/kg	0.01
VPH Compounds (C5-C12)	-	-				068S	mg/kg	0.01

[†] ISO 17025 accredited.

^{**} MCERTS accredited for sand, loam and clay.

[‡] Limits raised due to matrix interference.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^N MCERTS accredited for sand, loam and clay.

‡ Limits raised due to matrix interference.

Table Of Results

Matrix : Soil

Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

Table Of Results

Job Number : 08-48926

Matrix : Soil

Project Name: Kings Lynn

Client : Tamdown Regeneration Ltd

[illegible]

[‡] ISO 17025 accredited.

^z MCERTS accredited for sand, loam and clay.

Table Of Results

Matrix : Soil

Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	SP1 (A)	SP1 (B)	SP1 (C)	SP1 (D)	SP1 (E)	Method No	Units	LOD
Sample Depth (m)	-	-	-	-	-			
Date Sampled	10/04/08	10/04/08	10/04/08	10/04/08	10/04/08			
Date Scheduled	14/04/08	14/04/08	14/04/08	14/04/08	14/04/08			
Laboratory Reference No	310217	310218	310219	310220	310221			
Analysis								
** CWG SUITE **								
Aliphatic C5-C6	0.01	0.02	0.01	< 0.01	0.02	CWGS	mg/kg	0.01
Aliphatic >C6-C8	0.01	0.02	0.01	0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C8-C10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C10-C12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aliphatic >C12-C16	< 1	2.0	1.2	1.8	2.1	CWGS [†]	mg/kg	1
Aliphatic >C16-C21	12	24	8.6	8.7	18	CWGS [†]	mg/kg	1
Aliphatic >C21-C35	47	77	29	35	91	CWGS [†]	mg/kg	5
Total Aliphatics (C5-C35)	59	100	39	46	110	CWGS	mg/kg	5
Aromatic C6-C7	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C7-C8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C8-C10	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C10-C12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C12-C16	< 1	1.5	1.4	1.7	1.1	CWGS [†]	mg/kg	1
Aromatic >C16-C21	4.0	8.2	4.1	3.7	5.9	CWGS [†]	mg/kg	1
Aromatic >C21-C35	19	40	18	21	51	CWGS [†]	mg/kg	5
Total Aromatics (C5-C35)	23	49	24	26	58	CWGS	mg/kg	5
Volatile Hydrocarbons (C5-C12)	0.03	0.03	0.03	0.01	0.02	CWGS	mg/kg	0.01
Extractable Hydrocarbons (C12-C35)	82	150	62	72	170	CWGS	mg/kg	5
Total Hydrocarbons (C5-C35)	82	150	63	72	170	CWGS	mg/kg	5
MTBE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
Benzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
Toluene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
Ethylbenzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
m,p-Xylenes	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
o-Xylene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01

[†] ISO 17025 accredited.

[™] MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Soil

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Sample Reference	SP1 (F)					Method No	Units	LOD
Sample Depth (m)	-							
Date Sampled	10/04/08							
Date Scheduled	14/04/08							
Laboratory Reference No	310222							
Analysis								
** CWG SUITE **								
Aliphatic C5-C6	0.01					CWGS	mg/kg	0.01
Aliphatic >C6-C8	< 0.01					CWGS	mg/kg	0.01
Aliphatic >C8-C10	< 0.01					CWGS	mg/kg	0.01
Aliphatic >C10-C12	< 0.01					CWGS	mg/kg	0.01
Aliphatic >C12-C16	1.8					CWGS [†]	mg/kg	1
Aliphatic >C16-C21	12					CWGS [†]	mg/kg	1
Aliphatic >C21-C35	44					CWGS [†]	mg/kg	5
Total Aliphatics (C5-C35)	57					CWGS	mg/kg	5
Aromatic C6-C7	< 0.01					CWGS	mg/kg	0.01
Aromatic >C7-C8	< 0.01					CWGS	mg/kg	0.01
Aromatic >C8-C10	< 0.01					CWGS	mg/kg	0.01
Aromatic >C10-C12	< 0.01					CWGS	mg/kg	0.01
Aromatic >C12-C16	1.9					CWGS [†]	mg/kg	1
Aromatic >C16-C21	4.9					CWGS [†]	mg/kg	1
Aromatic >C21-C35	30					CWGS [†]	mg/kg	5
Total Aromatics (C5-C35)	36					CWGS	mg/kg	5
Volatile Hydrocarbons (C5-C12)	0.01					CWGS	mg/kg	0.01
Extractable Hydrocarbons (C12-C35)	93					CWGS	mg/kg	5
Total Hydrocarbons (C5-C35)	94					CWGS	mg/kg	5
MTBE	< 0.010					CWGS [™]	mg/kg	0.01
Benzene	< 0.010					CWGS [™]	mg/kg	0.01
Toluene	< 0.010					CWGS [™]	mg/kg	0.01
Ethylbenzene	< 0.010					CWGS [™]	mg/kg	0.01
m,p-Xylenes	< 0.010					CWGS [™]	mg/kg	0.01
o-Xylene	< 0.010					CWGS [™]	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.010					CWGS [™]	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.010					CWGS [™]	mg/kg	0.01

[†] ISO 17025 accredited.

[™] MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

EPH Description

Matrix: Soils
Project Name: Kings Lynn

Job Number: 08-48926
Client: Tamdown Regeneration Ltd

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
310206	TPRSK 39	0.3	09/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to beyond C40, overlain by several peaks unidentifiable by this analysis.
310207	TPRSK 40	0.7	09/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to beyond C40.
310209	TPRSK 41	0.8	09/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C12 to C38.
310210	TPRSK 42	1.2	09/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to C40.
310211	TPRSK 42	2.6	09/04/08	The sample chromatogram exhibits too little GC-FID amenable material to provide qualitative analysis.
310212	TPRSK 43	0.6	10/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from before C10 to beyond C40, overlain by several peaks unidentifiable by this analysis.
310213	TPRSK 44	0.5	10/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C12 to beyond C40, overlain by one unidentifiable peak eluting between C27 and C28.
310214	TPRSK 44	1.9	10/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to beyond C40, overlain by a series of peaks which require qualitative analysis by GC-MS for further identification.

ALcontrol LABORATORIES

EPH Description

Job Number: 08-48926

Client: Tamdown Regeneration Ltd

Matrix: Soils
Project Name: Kings Lynn

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
310215	TPRSK 45	1.8	10/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.
310216	TPRSK 45	2.2	10/04/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C14 to C38.

Table Of Results

Job Number : 08-48926
Matrix : Leachate

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

[†] ISO 17025 accredited.

^b MCERTS accredited for sand, loam and clay.

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Table Of Results

Job Number : 08-48926
Matrix : Leachate

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol LABORATORIES

Table Of Results

Job Number : 08-48926
Matrix : Leachate

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

[illegible]

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

Table Of Results

Matrix : Leachate

Client : Tamdown Regeneration Ltd

[illegible]

^I ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol Technichem

Table Of Results - Appendix

Job Number : 08-48926

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
068S	In-house method	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) including BTEX and MTBE compounds by Headspace GC-FID (VPH).	W
022S	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
CWGS	In-house method based on "Total Petroleum Hydrocarbon Criteria Working Group" series, 1998-9	Determination of "CWG" banded petroleum hydrocarbons in soil samples using a combination of headspace GC-FID (C5-C12) and hexane:acetone extraction / silica-alumina aliphatic - aromatic split / GC-FID (C12-C35) techniques with banding by comparison to alkane standards	W
080L	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	W
070S	In-house method	Determination of hexane/acetone extractable hydrocarbons in soil by gas chromatography with flame ionisation detection. Note: UKAS accreditation only applies to C10-C40 and excludes other carbon banding.	W
022L	In-house method	Determination of PAH compounds in aqueous samples by pentane extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
084S	In-house method referencing BS1377: Part 3: 1990 and Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D
074	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 2:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D

ALcontrol Technichem

Table Of Results - Appendix

Job Number : 08-48926

Project Name: Kings Lynn
Client : Tamdown Regeneration Ltd

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D
001a	In-house method based on HSG 248	Visual screening of soil samples for fibrous material requiring further identification according to method 001 (note for samples > approximately 1kg it may be necessary to sub-sample prior to screening)	

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Debbie Lee
Tamdown Regeneration Ltd
1 Tamdown Way
Braintree
Essex
CM7 2QL

30 June 2008

TEST REPORT

Our Report Number: 08-51721

Your Order Reference: RP/R111/39

5 soil samples received on 20/06/2008

Final instructions received on 20/06/2008 (CoC No. 38679)

Project Name: Kings Lynn 50369

Project Code: 50369

Laboratory analysis started on 20 June 2008

All laboratory analysis completed by 30 June 2008

Rexona Rahman
Analytical Reporting Manager
ALCONTROL LABORATORIES

Sharon Googh
Project Co-Ordinator
ALCONTROL LABORATORIES

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Results contained herein relate only to the samples tested. Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

ALcontrol Laboratories Sample Description

Matrix: Soil
Project Name: Kings Lynn 50369

Job Number: 08-51721
Client: Tamdown Regeneration Ltd
Project Code: 50369

[illegible]

ALcontrol Laboratories Table Of Results

Job Number : 08-51721
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn 50369
Client : Tamdown Regeneration Ltd

Sample Reference	TP50	TP53	TP53	TP52	TP52	Method No	Units	LOD
Sample Depth (m)	1.5	1.0	2.5	0.5	2.0			
Date Sampled	16/06/08	17/06/08	17/06/08	17/06/08	17/06/08			
Date Scheduled	20/06/08	20/06/08	20/06/08	20/06/08	20/06/08			
Laboratory Reference No	323592	323593	323594	323595	323596			
Analysis								
Moisture Content (Dry Weight)	3.8	34.9	47.9	31.2	39.5		%	0.1
Moisture Content (Wet Weight)	3.6	25.9	32.4	23.8	28.3		%	0.1
Asbestos (Screen)	-	Absent	-	Absent	-	001a		
Arsenic	13	12	15	13	12	069S TM	mg/kg	3
Barium	84	320	84	95	82	069S TM	mg/kg	10
Beryllium	0.9	1.2	0.8	1.2	0.9	069S TM	mg/kg	0.5
Boron (W/S)	2.5	3.3	4.6	2.9	4.9	016S TM	mg/kg	0.5
Cadmium	< 0.5	0.7	< 0.5	0.6	0.5	069S TM	mg/kg	0.5
Chromium	29	32	26	41	29	069S TM	mg/kg	10
Copper	11	50	12	15	13	069S TM	mg/kg	5
Lead	27	73	25	34	26	069S TM	mg/kg	10
Mercury	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	069S TM	mg/kg	0.6
Nickel	24	28	22	32	25	069S TM	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S TM	mg/kg	2.5
Sulphate (Total Acid Soluble) as SO4	-	570	-	-	-	025a TM	mg/kg	200
W/S Sulphate as SO4	0.12	0.28	0.19	0.05	0.22	074 TM	g/l	0.02
Vanadium	45	50	42	60	45	069S TM	mg/kg	3
Zinc	65	130	59	80	64	069S TM	mg/kg	10
pH	8.4	8.4	8.3	8.7	8.8	084S TM	pH Units	1
** VPH/BTEX SUITE **								
MTBE	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
Benzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
Toluene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
Ethylbenzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
m,p-Xylenes	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
o-Xylene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.01	-	-	-	-	068S TM	mg/kg	0.01

¹ ISO 17025 accredited.

^M MCERTS accredited for sand, loam and clay.

ALcontrol Laboratories Table Of Results

Job Number : 08-51721
Matrix : Soil
Project Code: 50369

Project Name: Kings Lynn 50369
Client : Tamdown Regeneration Ltd

[illegible]

^T ISO 17025 accredited.

* MCERTS accredited for sand, loam and clay.

ALcontrol Laboratories EPH Description

Matrix: Soils
Project Name: Kings Lynn 50369

Job Number: 08-51721
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
323592	TP50	1.5	16/06/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C16 to C38.

ALcontrol Laboratories Table Of Results

Job Number : 08-51721
Matrix : Leachate
Project Code: 50369

Project Name: Kings Lynn 50369
Client : Tamdown Regeneration Ltd

Sample Reference	TP50	TP53	TP53	TP52	TP52	Method No	Units	LOD
Sample Depth (m)	1.5	1.0	2.5	0.5	2.0			
Date Sampled	16/06/08	17/06/08	17/06/08	17/06/08	17/06/08			
Date Scheduled	20/06/08	20/06/08	20/06/08	20/06/08	20/06/08			
Laboratory Reference No	323592	323593	323594	323595	323596			
Analysis								
Arsenic (Dissolved)	0.024	0.026	0.027	0.018	0.035	080L [†]	mg/l	0.005
Barium (Dissolved)	0.037	0.035	0.039	0.006	0.018	080L [†]	mg/l	0.005
Beryllium (Dissolved)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	080L [†]	mg/l	0.001
Boron	0.089	0.13	0.23	0.11	0.28	080L [†]	mg/l	0.005
Cadmium (Dissolved)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	080L [†]	mg/l	0.001
Chromium (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080L [†]	mg/l	0.005
Copper (Dissolved)	< 0.005	0.021	< 0.005	0.007	< 0.005	080L [†]	mg/l	0.005
Lead (Dissolved)	< 0.005	0.019	< 0.005	< 0.005	< 0.005	080L [†]	mg/l	0.005
Mercury (Dissolved)	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	080L [†]	mg/l	0.00005
Nickel (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080L [†]	mg/l	0.005
Selenium (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080L [†]	mg/l	0.005
Vanadium (Dissolved)	< 0.005	0.009	< 0.005	0.008	0.009	080L [†]	mg/l	0.005
Zinc (Dissolved)	< 0.005	0.011	< 0.005	< 0.005	< 0.005	080L [†]	mg/l	0.005
** VPH/BTEX SUITE **								
MTBE	< 0.005	-	-	-	-	068L	mg/l	0.005
Benzene	< 0.005	-	-	-	-	068L	mg/l	0.005
Toluene	< 0.005	-	-	-	-	068L	mg/l	0.005
Ethylbenzene	< 0.005	-	-	-	-	068L	mg/l	0.005
m,p-Xylenes	< 0.005	-	-	-	-	068L	mg/l	0.005
o-Xylene	< 0.005	-	-	-	-	068L	mg/l	0.005
1,3,5-Trimethylbenzene	< 0.005	-	-	-	-	068L	mg/l	0.005
1,2,4-Trimethylbenzene	< 0.005	-	-	-	-	068L	mg/l	0.005
VPH Compounds (C5-C10)	0.013	-	-	-	-	068L	mg/l	0.01
VPH Compounds (C10-C12)	< 0.01	-	-	-	-	068L	mg/l	0.01
VPH Compounds (C5-C12)	0.015	-	-	-	-	068L	mg/l	0.01
** EPH SUITE **								
EPH (C10-C20)	0.07	-	-	-	-	072L	mg/l	0.01
EPH (C20-C30)	0.05	-	-	-	-	072L	mg/l	0.01
EPH (C30-C40)	0.01	-	-	-	-	072L	mg/l	0.01
EPH (C10-C40)	0.13	-	-	-	-	072L [†]	mg/l	0.01

[†] ISO 17025 accredited.

^{*} MCERTS accredited for sand, loam and clay.

ALcontrol Laboratories
EPH Description

Matrix: Leachates
Project Name: Kings Lynn 50369

Job Number: 08-51721
Client: Tamdown Regeneration Ltd
Project Code: 50369

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	EPH Description
323592	TP50	1.5	16/06/08	The sample chromatogram exhibits a hump of unresolved complex material eluting from C10 to C40, overlain by several peaks unidentifiable by this analysis

ALcontrol Laboratories

Table Of Results - Appendix

Project Name: Kings Lynn 50369
Client : Tamdown Regeneration Ltd

Job Number : 08-51721

Project Code: 50369

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
068S	In-house method	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) including BTEX and MTBE compounds by Headspace GC-FID (VPH).	W
022R	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
080L	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	W
072L	In-house method	Determination of cyclopentane extractable hydrocarbons in aqueous samples by large volume injection gas chromatography with flame ionisation detection. Note: UKAS accreditation only applies to C10-C40 and excludes other carbon banding.	W
070S	In-house method	Determination of hexane/acetone extractable hydrocarbons in soil by gas chromatography with flame ionisation detection. Note: UKAS accreditation only applies to C10-C40 and excludes other carbon banding.	W
068L	In-house method	Determination of Total Gasoline Range Organics Hydrocarbons (GRO) including BTEX and MTBE compounds by Headspace GC-FID (VPH).	W
084S	In-house method referencing BS1377: Part 3: 1990 and Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D
074	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 2:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
069S	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP-OES detection	D

ALcontrol Laboratories

Table Of Results - Appendix

Project Name: Kings Lynn 50369
Client : Tamdown Regeneration Ltd

Job Number : 08-51721

Project Code: 50369

Summary of methods contained within report :

Method No.	Reference	Description	Wet/Dry Analysis
025a	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of hydrochloric acid soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
016S	In-house method	Determination of water soluble boron by 2:1 extraction in hot water followed by ICP-OES detection	D
001a	In-house method based on HSG 248	Visual screening of soil samples for fibrous material requiring further identification according to method 001 (note for samples > approximately 1kg it may be necessary to sub-sample prior to screening)	

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Appendix

Code	Description
On Results	
*	Detection limit(s) raised due to matrix interference
¥	Detection limit(s) raised due to reduced amount of sample available for analysis
‡	Dilution factor applied due to nature of sample
NAD	No asbestos detected
\$	Analysis sub-contracted
U/S	Analysis unsuitable for sample due to its matrix or properties
I/S	Insufficient sample
M/S	Sample cannot be located within the laboratory
ND	Not detected (below relevant analytical detection limit)
¢	Sample filtered prior to analysis
§	Please note product present, therefore this result is for indicative purpose only
On the Sample Numbers	
†	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
¢	Unsuitable for analysis due to asbestos content
General Statements	
æ	Please note TOC's & LOI's have been repeated and the apparently anomalous results confirmed
¶	UKAS and/or MCERTS accreditation removed due to duration of sample in laboratory prior to testing
▣	The BOD analysis was carried out prior to the COD analysis and included an oily layer, which is the likely cause of the anomalous results
Note:	Analysis carried out for organic compounds on water samples containing free product is on a "best endeavour" basis
Note:	All results calculated from organic carbon on a dry weight basis
Note:	Fe(II) and dissolved Fe are analysed by different methods, sometimes leading to slight discrepancy between results
Note:	"Total" results calculated by summing individual components are not rounded
Note:	The reporting limit stated in the LOD column is the standard method reporting limit, derived statistically from validation data, however it is occasionally necessary to raise reporting limits due to matrix interference or limited sample availability
Note:	During soil preparation, best efforts are made to produce analytical subsamples representative of the entire submitted sample, without exclusion of stones