

VERIFICATION REPORT – PHASES 1 - 3 (PLOTS 2 - 12, 14 - 20)

FOR

REMEDIATION WORK AT KINGS CLOSE, YAPTON

FOR

PLOTLIFE SPV3 LTD

G6308-04/03

02 April 2019



Ground Management Ltd
Civil and Geotechnical Engineering Services

DOCUMENT CONTROL

Report Title: Verification Report – Phases 1 - 3 (2 – 12, 14 - 20)
for Remediation at Kings Close, Yapton

Report No./ Issue: G6308-04/03

(Replaces previous revision G6308-04/02 issued 20Feb2018)

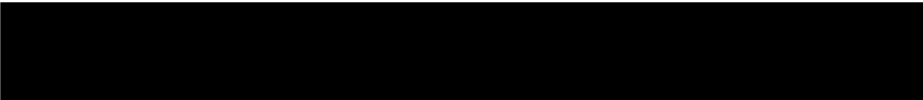
Report Status: For submission to Planning

Distribution: Plotlife SPV3 Ltd PDF copy 02 April 2019

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Information obtained from third parties has not been independently verified by Ground Management Limited, unless otherwise stated in the report.

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1.0 INTRODUCTION

- 1.1 This Verification Report has been prepared by Ground Management Ltd for PlotLife SPV3 Ltd for remediation work at Kings Close, Yapton where residential development has been carried out. A location plan is included as Figure 1 and a site plan showing the general arrangement of the development is presented as Figure 2. The site had previously been used as a brickpit, which was subsequently infilled, and a small manufacturing facility.
- 1.2 This Verification Report has been prepared for the purpose of fulfilment of planning conditions (Condition 17).
- 1.3 The development has been delivered in three phases as indicated on Figure 4, also showing the soft landscaped and garden areas. The remediation works are substantially complete with all the rear gardens now capped and the soils verified. There are a few small areas of soft landscaping to the front of plots 5 to 8 and a small area to the north of the site where placing of subsoil/topsoil is to be completed.
- 1.4 This version of the Verification Report covers all three phases (Phases 1 to 3), and covers Plots 2 – 12 and 14 to 20 (there is no Plot 1 or 13). The only changes in this report from the previous version is the reporting on subsoil and topsoil sampling and testing from Plots 3, and 6 to 8, and from subsoil and topsoil stockpiles, covered in Paragraphs 3.16 to 3.19, and a note on the excavation and inspection of the Soakaway in Plots 5 to 8 covered in Paragraph 7.4.
- 1.5 The site lies on the south side of Main Road, Yapton, off Kings Close (see Figure 1). At Desk Study stage the main concerns were the depth and nature of the infill to the old brick pits, the presence of asbestos fragments noted on the ground surface during a walkover, and any contamination that may have emanated from the factory that had occupied part of the site
- 1.6 Investigation and assessment of the site was conducted in 2017 in two phases by Ground Management Ltd. A desk study and preliminary investigation was undertaken during February and March 2017, followed by further investigations in July 2017. The results of these investigations and assessments are contained in the following Reports:
- Land Quality Assessment of Land at King's Close, Yapton. 23rd March 2017. Report G308-01/1
 - Land Quality Phase 2 Report of Land at King's Close, Yapton 24th August 2017 Report G6308-02/2

- 1.7 Subsequently a Remediation Summary was prepared for the site (Remediation Summary for Land at King's Close, Yapton, 31st October 2017. Report G6308-03/1).
- 1.8 The remediation work recommended in the August 2017 report (and summarised in the Remediation Summary) comprised the following elements of work:
- Removal of contaminated soils, including those containing asbestos, to a suitably licensed landfill facility
 - Watching brief and further investigation and assessment if additional areas of contamination are found
 - Investigation around areas designated for infiltration drainage
 - Potential for gas protection to be used in certain areas of the site where hydrocarbons had been noted
 - Restriction on type of piling to be used to minimise contamination migration
 - Discussions to be held by developer with Water Company to determine suitable type(s) of mains water pipe
 - Placing of clean subsoil and topsoil in gardens and soft landscaping areas
- 1.9 Site work commenced in spring 2018. The groundworks, removal of soils, watching brief and further investigations were carried by SoilFix Ltd. As part of their contract they prepared a completion report on the work that they had undertaken (Completion Report, King's Close, Yapton. 1st November 2018. Reference C411.PLT). The Completion Report acts as the Verification Report for the elements of work that Soilfix undertook, and contains the following information:
- Details of further investigations undertaken both planned, eg for soakaway areas, and consequent on finding additional contamination
 - Details of materials removed from site (including Waste Transfer Notes)
 - Details of waste carriers
 - Details of licensed landfills to which material was taken
 - Details of how asbestos was dealt with.
- 1.10 Ground Management Ltd were not on site during the contract work undertaken by Soilfix Ltd or the during subsequent development work that was overseen by Plotlife SPV3 Ltd.
- 1.11 This report focuses on the other items of work and provides the relevant verification data. These items of work include:
- Removal of materials from around site edges (which Soilfix were unable to undertake during their contract because of site constraints) (Section 2)

- Details of thickness, source and chemical compliance of imported topsoil and both imported and site re-used subsoil) (Section 3)
- The decision not to employ any gas/vapour protection (Section 4)
- Details of piling used (Section 5)
- Details of mains water supply pipes (Section 6)

1.12 Ground Management Ltd undertook sampling and testing of imported subsoil and topsoil.

1.13 It should be noted that the original investigations and the Soilfix Report are based on a plot numbering system that has subsequently been altered (to correspond with postal referencing). In this report, when referring to plot numbers, the new plot number is given and where appropriate this is followed by the original plot number in brackets. The revised (current) plot numbers are shown on Figure 3 together with the obsolete numbers shown in brackets. For further clarification this information is also presented in the Table 1 below:

NEW HOUSE & PLOT NO.	OBSELETE PLOT NO.
2	18
3	17
4	16
5	15
6	14
7	13
8	12
9	11
10	10
11	9
12	8
14	7
15	6
16	5
17	4
18	3
19	2
20	1

Table 1: Revised Plot Numbering

1.14 This work was carried out for Plotlife SPV3 Ltd and nothing in this report confers or purports to confer on any third party, any benefit or any right to enforce any term of this report pursuant to the Contract (Rights of Third Parties) Act 1999.

2.0 REMOVAL OF CONTAMINATED SOILS AND OTHER WASTES

- 2.1 During the main groundworks contract, Soilfix Ltd were unable to remove small quantities of soils materials from around the edges of the site due to fencing and other obstacles. This material was excavated by main ground works contractor, Avanti Construction Ltd, and disposed of under the direction of Soilfix at the same landfill site as was previously used.
- 2.2 The Waste Transfer and Consignment Notes for material removed from site are supplied in Appendix 2.

3.0 PLACEMENT OF COVER SYSTEM

- 3.1 The remedial requirements necessitated a 600mm cover system to be placed above remaining made ground (after any excavation) in areas of soft landscaping. Across most of the site, made ground was revealed at the base of site wide excavation. However, in the vicinity of Plots 9 to 11 (11 to 9) natural ground was encountered at the base of the excavation. The formation levels of the remedial excavations are indicated on the drawing included as Appendix 3.1.
- 3.2 Where natural ground was excavated beneath proposed buildings in these areas it was stockpiled by Soilfix and subsequently re-used by the developer as subsoil in Plots 2 to 4 (18 to 16), Plots 12 to 16 (5 to 8) and a small amount in Plots 17 to 20 (4 to 1). Testing was undertaken, by Soilfix, of the natural ground both in situ (samples P1, P9, P10 and P11) and of the stockpiled material (SP04-S1 and SP04-S2) and reported on in the Soilfix Completion Report. They noted that all the results comply with the compliance requirements set out in the Ground Management Ltd Phase 2 Report (reproduced in this report as Appendix 4).
- 3.3 At the base of the cover system, an orange marker/separator layer was placed. Two types of marker layer were used: a non-woven geotextile, Terram Hi Vis and a woven geo-textile Lotrak Alarm 18. Details of both of the geotextiles are given in Appendix 3.2
- 3.4 Imported subsoil and topsoil was obtained from a single source supplier:
- Eurogreen Environmental
- 3.5 Pre-supply testing was provided by Eurogreen Environmental to demonstrate that the material conformed to the topsoil and subsoil compliance requirements. The results of the pre-supply testing is shown in Appendix 3.3
- 3.6 Further testing was undertaken on both subsoil and topsoil, after it was delivered and laid in Plots 16 to 20, on the basis of at least one test per 50m³ of material. The results of this testing are discussed below and shown in Appendix 3.4, with the locations of sampling given in Figures 5 to 7.

Subsoil Testing (Phase 1)

- 3.7 Subsoil was initially tested in Plots 17 and 18 (site derived subsoil in Plot 16 had already been tested in stockpiles taken from Plots 9 to 11) and compared with the Topsoil/Subsoil criteria. The sample from Plot 17 (hole 17B), from a depth of 0.4 to

0.6m, failed the criteria in respect of a number of polyaromatic hydrocarbons (benzo(ah)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, dibenzo(ah)anthracene). The results for the latter two species were particularly high.

- 3.8 In order to determine whether this was a local problem or more widespread, further sampling and testing in the area around 17B was undertaken (holes 17C, 17D, 17E and 18A). 17C was adjacent to 17B and the other holes about 3m distant. Site photo records were also reviewed.
- 3.9 The photo records showed that, in the area of Plot 17, the base membrane was laid and a thin layer of site derived subsoil placed, but some on- site material was subsequently temporarily stockpiled in the area prior to disposal off site. It was not totally removed prior to placement of imported subsoil. The site derived material was noted as a thin layer (50 to 100mm) of orange brown clay at the base of the placed imported subsoil, above the membrane. The testing of subsoil from the additional holes included testing of both imported and site derived material.
- 3.10 The results of the additional testing of the imported subsoil and site derived subsoil all proved compliant apart from one minor exceedance for dibenzo(ah)anthracene (0.3mg/kg compared with a criteria of 0.28mg/kg). It therefore appears that the results in 17B are unrepresentative of the subsoil conditions across Plot 17 and is probably indicative of very localised contamination from the temporarily stockpiled material.
- 3.11 The subsoil material within 1.5m radius of 17B was removed down to 0.6m, where the membrane is located, and replaced with clean imported subsoil. During the excavation, no obvious contamination was noted. Once clean subsoil had been placed, the existing topsoil was re-used within 0.3m of the ground surface.

Topsoil Results (Phase 1)

- 3.12 The topsoil in Plot 17 was sampled in hole 17A for the potential contaminants listed in the Topsoil/Subsoil criteria list. The sample, from a depth of 0.0 to 0.2m, failed the criteria in respect of one polyaromatic hydrocarbons, dibenzo(ah)anthracene (0.5mg/kg compared with a criteria of 0.28mg/kg).
- 3.13 Topsoil testing in Plots 19 and 20 were compliant. Therefore additional testing of topsoil was undertaken in Plots 17 and 18, to determine whether the result from 17A was anomalous. Four additional topsoil samples were taken (from 17C, 17D, 17E and 18A). All were compliant.

- 3.14 When all seven samples are considered for plots 16 to 20, the average dibenzo(ah)anthracene content is 0.17mg/kg, and the 95% upper confidence limit of the true population mean is 0.29%. This is marginally above the criteria of 0.28%, and is considered acceptable.

Topsoil Results (Phase 2)

- 3.15 For phase 2, four topsoil samples were taken from 0.1m depth in plots 9, 11, 12 and 15 at the locations indicated on Figure 6. All topsoil samples were compliant with the compliance requirements. No subsoil testing was required in this phase as this had been completed by SoilFix.

Subsoil and Topsoil Results (Phase 3)

- 3.16 Subsoil testing (two samples SP 5-8(1) and SP 5-8 (2)) was initially undertaken on a stockpile of natural soils derived from the soakaway excavation in plots 5 to 8 and destined to be used as subsoil. The results of both samples complied with the criteria for subsoil/testing. However, it was noted at the time of sampling that the stockpile also contained a small amount of made ground. A recommendation was made to the groundworks contractor that the made ground material should be removed from the stockpile and that further sampling and testing of the placed subsoil would be undertaken.
- 3.17 The stockpiled subsoil from the excavation of the soakaway in plots 5 to 8 was placed at the base of the cover system in Plot 8 and the southern half of plot 7. Further subsoil was imported by Eurogreen Environmental Ltd.. to complete the garden areas of plots 5 to 8 and other areas of soft landscaping. Subsoil to plots 2 to 4 had previously been placed and comprised site won natural soils verified by Soilfix (refer to Section 3.2 above).
- 3.18 Further subsoil testing was undertaken in plots 6, 7 and 8. Note that at the time of sampling the final site levels had not been reached (ie not all topsoil had been placed) and therefore the recorded sample depths are not an indicator of the type of material sampled. In addition Topsoil from plot 3 and from a stockpile of topsoil (GMP-TS1) was also sampled and tested. The topsoil was also derived from Eurogreen.
- 3.19 In all cases the results of the Phase 3 testing were in compliance with the topsoil/subsoil criteria.

General

- 3.20 Photos taken during the laying of geotextile, subsoil and topsoil are included in Appendix 3.5

4.0 CONSIDERATION OF GROUND GAS PROTECTION

- 4.1 In the Phase 2 Investigation Report (Section 6) it was noted that the monitoring of ground gas (carbon dioxide and methane) and volatile organic compounds did not indicate any significant quantities of any, and that with respect to carbon dioxide and methane, the site would be considered as a Characteristic Situation 1/Green site, requiring no precautions.
- 4.2 However in Section 7.14 of that report it was noted that consideration could be given to installing gas protection in those units in the eastern part of the site, where hydrocarbons were most frequently found, i.e. Plots 5 to 8 (12 to 15).
- 4.3 Soilfix conducted further investigations in this area and note in their Completion Report that they did not encounter any significant hydrocarbons in this area. On that basis no gas protection system was installed in those units. (See Sections 3.2.3 and 8.5 of Soilfix Completion report).

5.0 PILING

- 5.1 In the Phase 2 Report (Section 7.16) it was noted that the piling on the site may extend down into the chalk aquifer and that in these circumstances, the Environment Agency would normally prefer a piling system that results in minimal contamination migration, such as CFA piling.
- 5.2 CFA piling was used on this site. Appendix 5 gives as-built drawings of the piling locations and type

6.0 MAINS WATER SUPPLY PIPEWORK

- 6.1 The Phase 2 Investigation report (Section 7.17) noted that the site was not suitable for the use of unprotected polyethylene pipes as main water supply pipes because of the presence within the made ground of polyaromatic hydrocarbons (PAH).
- 6.2 Following consultation with the water company, mains water pipes used on the site consist of a mixture of protected polyethylene pipes and ductile iron pipework. Details of where the two types of pipework have been used in given in the drawings in Appendix 6.

7.0 SOAKAWAYS

- 7.1 Soilfix report section 3.5.5 records the excavation of proposed soakaways within the proposed gardens at two locations, Plots 16,15,14,12 (5,6,7,8) and Plots 20,19,18,17 (1,2,3,4). The sides and base of the excavations were inspected by Soilfix who record they found them to contain no gross visual or olfactory contamination.
- 7.2 Plotlife have advised that Soilfix also undertook soakaway excavations in Plots 2 to 4 (18 to 16).
- 7.3 The soakaway in Plots 9 to 11 (11 to 9) was completed by the main groundwork contractor, Avanti, within the previously verified soils.
- 7.4 The soakaway in Plots 5 to 8 (15 to 12) has been excavated and inspected. No gross visual or olfactory contamination was noted.

Civil and Geotechnical Engineering Services

PROJECT NO: G6308

FIGURE REF: Figure 1

PROJECT: Land at Kings Close Yapton

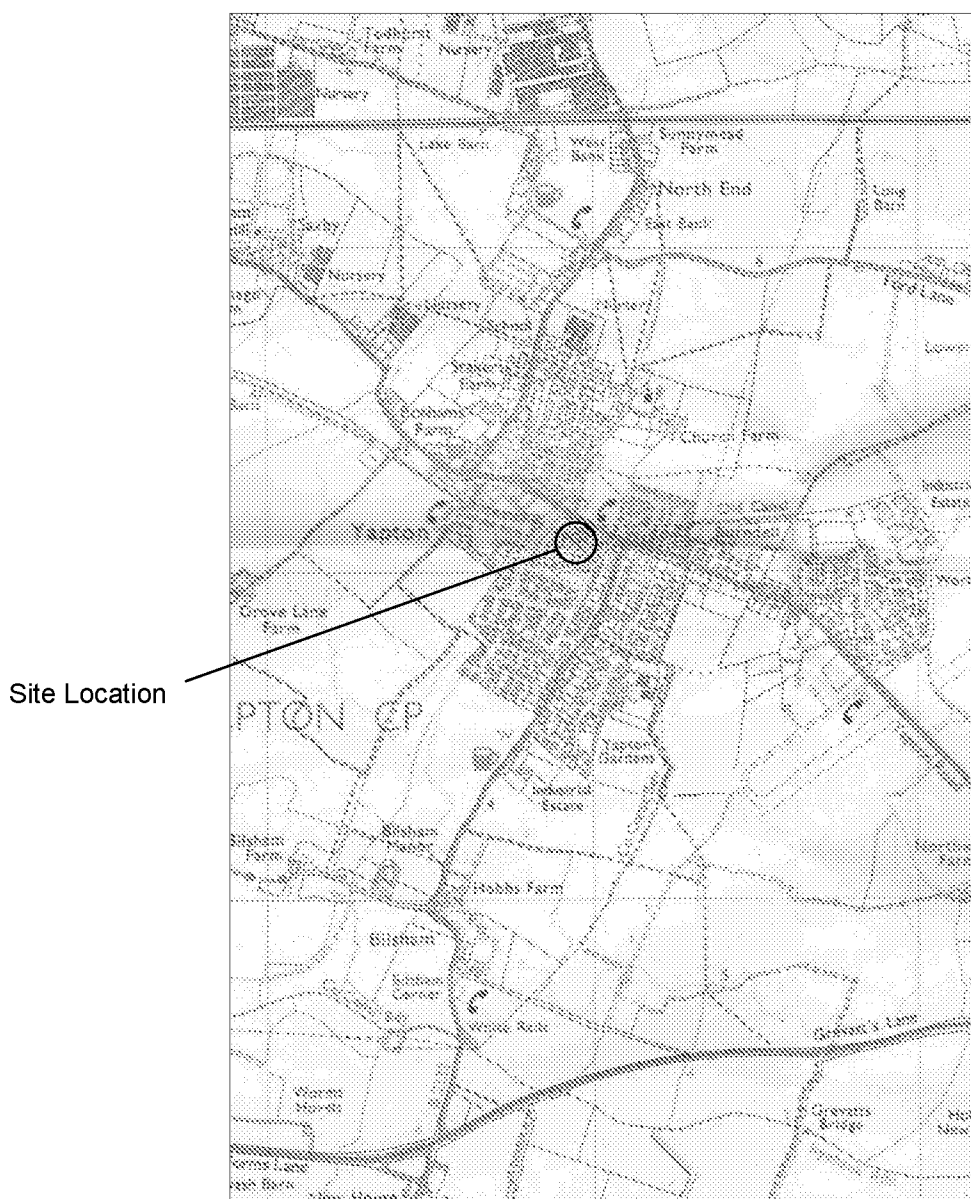
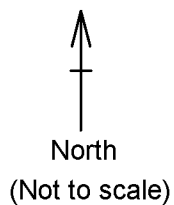
PREPARED: AJHT

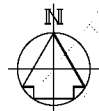
SECTION: Verification Report

CHECKED: AJHT

TITLE: **Site Location Plan**

DATE: Dec 2018





OUTSTANDING DESIGN ISSUES:

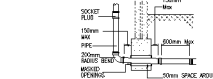
- Precise RWP Locations
- Precise Fuel Outlet Locations

⚠ WARNINGS :

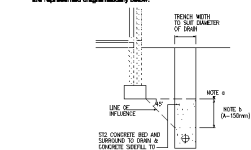
- **Contaminated Ground :**
Remediation of contaminated soils may be required in the vicinity of seaway structures that will concentrate flows into the ground. See Estuary Management Report 06306.
- **Foul Drains / Sewers :**
Due to the close proximity of permeable pavements to foul drain runs on the site, it is not anticipated that Southern Water will adopt any of the new foul drainage systems apart from manhole F9.

- ## Notes

- [illegible]



- 10 Manhole (M.H.) covers and inspection chamber (I.C.) shall be adjusted to suit free surface levels.
- 11 Where trench foundation levels are above original ground level, levels shall be made up with either well compacted layers of D.O.T. type 1 or fine STC concrete.
- 12 Topsoils of 100mm strata shall be removed; pipes, cables and manholes shall be levelled and topped.
- 13 Manhole gradients for pipes where no restraint is shown shall be 1:60.
- 14 Disposal of surplus M.H. or private drains and sewers to be in accordance with requirements of the Building Regulations.
- 15 Drains/trenches lower than sewers to be:
 - Where drains/trenches are within 1.0 m of the building the trench is to be filled with concrete up to 75mm below the level of the foundation, in accordance with Building Regulation 2000: Part II, diagram 8.
 - Where drains/trenches are distance 1m from footing and the depth of trench below foundation level is less than 100mm the trench shall be filled with concrete up to 75mm such that the top level of concrete shall be 100mm (to 100mm) below trench level. Notes (a) and (b) shall apply.



- [illegible]

C7	ALL BACK MUDS KILLS REMOVED.	-	PF-14-03
C8	POLL OUTLETS IN TOWNS 1 & 2 ARE RELOCATED.	-	PF-05-04
C9	ADDITIONAL PROPOSED LEVELS SHOWN ON MAIN ROAD.	-	PF-18-07
C4	EXTENSIVE FILLABLE STRIPS REPOSITIONED.	-	PF-05-07
C3	CONSTRUCTION BUREAU, PLOT NUMBER LOCATED.	-	PF-11-08
C2	WORKER IN AREA TO NORTH OF EXHIBITOR CHANGED.	-	PF-18-04
C1	CONSTRUCTION OF NEW DRAINAGE LINES TO PASS UNDER PRE-EXISTING GROUND ISSUES.	-	PF-11-07
P6	SCOURING CAUSED HYDRAULIC BREAK ON WEST BOUNDARY ADJACENT TO WEST LANE ACCESS. SPURRED FILLING OF NORTH OF SANDHILL MOUND. COULD BE SAME LEVELS ADJACENT TO LANE 4 & 7 ADDED.	-	PF-05-03
P5	ADDITIONAL, OVERSILL LEVELS SHOWN.	-	PF-05-04
P4	ADDITIONAL, OVERSILL LEVELS SHOWN.	-	PF-05-04

REV	DESCRIPTION	CHECKED	DATE
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CLIENT Plotlife			
PROJECT Housing Development Kings Close, Yapton General Arrangement showing Drainage			
DRAWN BY PF	CHECKED BY VC	DESIGNED PF	
SCALE @ A1 1:200	DATE Jen. 2018	STATUS Constructing	
JOB NO. 28854	DRAWING NO. 101	REVISION C7	

FIGURE 2 : SITE PLAN

KEY

- TOPOGRAPHICAL SURVEY**
- PROPOSED**
- PROPOSED SURFACE WATER DRAINAGE @ 100-UNLESS NOTED OTHERWISE
- SURFACE WATER MANHOLE #40 INSPECTION CHAMBER RECORDING EYE
- EXISTING FOUL WATER SEWER
- FULLY PERFORATED DISTRIBUTION PIPE
- FOUL WATER MANHOLE #38 INSPECTION CHAMBER RECORDING EYE
- CHAMBER
BSP TYPE (BSP 1/2" (30)
PIPE
QUANTITY
DIAMETER
CHAMBER CENTRE TO CHAMBER CENTRE
DIRECTION OF FLOW
- DRAIN TO BE ASSIGNED
- HIGH STORAGE BOUNDARY: SEE SCHEDULE
10 - INSPECTION WELL CONVEYANCE
11 - BASE OF STORMWATER UNIT (F.L.)

FOUL MANHOLE SCHEDULE

M.H. REF.	INVERT ELEV. LOWEST PIPE	COVER LEVEL	CHAMBER SIZE INTERVAL DIMS	COVER SIZE CLEAR OPENING	COVER TYPE	M.H. TYPE	COMMENT / DRG.
F1	3.970	6.100	EXISTING MH	EXISTING	-	-	
F2	2.760	6.480	EXISTING MH	EXISTING	-	-	
F3*	4.680	6.480	Ø1200 "LEGION" MH	Ø75 x Ø75 "LEGION" MH	D400	B	§TD.01.50

* NOTE : Southern Water Connection. New manhole inspection by Southern Water required

SURFACE WATER MANHOLE SCHEDULE

M.H. REF.	INVERT LEVEL LOWEST PIPE	COVER LEVEL INTERNAL DGM	CHAMBER SIZE INTERNAL DGM	COVER SIZE CLEAR OPENING	COVER TYPE	M.H. TYPE	COMMENT / DRG.
91	6.770	6.420	EXIS180x180	EXIS180	-	-	EXISING MH
92	6.480	6.480	750x475	750x400	D400	CATCHPIPI	SD1.01.47
93	6.480	6.330	750x475	EXIS180	D400	PP	DRCSA, SD1.47, EMH
94	6.450	6.300	750x475	750x400	D400	CATCHPIPI	SD1.01.47
95	6.400	6.335	750x475	750x400	D400	CATCHPIPI	SD1.01.47
96	6.400	6.320	750x475	750x400	D400	PP	SD1.01.47.47
97	6.400	6.450	750x475	750x400	D400	CATCHPIPI	SD1.01.47
98	6.400	6.300	750x475	750x400	D400	CATCHPIPI	SD1.01.47
99	6.680	6.200	750x475	750x400	D400	PP	SD1.01.47
100	6.510	6.200	750x475	750x400	D400	PP	SD1.01.47

SOAKAWAY SCHEDULE

TYPE	EFFECTIVE DEPTH (Ø)	TOTAL DEPTH (m)	RING DIA. (m)	PIT DIMENSIONS PLAN (L x W) (m)	COVER SIZE (CLEAR OPENING) (mm)	COVER TYPE	COMMENT
SA-1	1,200	1,700	-	14.0 x 0.50	2 x Ø225	B125	REAR SIDE OF MAIN BUILDING
SA-2	1,200	1,700	-	14.0 x 0.50	2 x Ø225	B125	REAR SIDE OF MAIN BUILDING
SA-3	1,200	1,700	-	14.0 x 0.50	2 x Ø225	B125	REAR SIDE OF MAIN BUILDING
SA-4	1,200	1,700	-	14.0 x 0.50	2 x Ø225	B125	REAR SIDE OF MAIN BUILDING
SA-6	1,200	1,700	-	18.0 x 0.50	3 x Ø225	B125	REAR SIDE OF MAIN BUILDING

1. A Lotrak 1800 geotextile or equivalent around is required.
2. Soteways shall be a minimum of 5.00m from any buildings or structures.
3. The Contractor shall immediately notify the Engineer if groundwater is encountered in soteway pits.
4. A provisional soil infiltration rate of 2.60×10^3 m/sec has been used for soteway design.



THE OBSOLETE PLOT NUMBERS ARE
SHOWN IN BRACKETS AFTER THE CURRENT
PLOT NUMBER



Trees

<i>Prunus avium</i> 'Plena'	Regular
<i>Prunus cerasifera</i> 'Nigra'	Regular
<i>Acer platanoides</i> 'Drummondii'	Regular
<i>Acer pseudoplatanus</i> 'Brilliantissimum'	Half standard
<i>Betula albosinensis</i> 'Fraxination'	Regular
<i>Eucalyptus gunnii</i>	Regular
<i>Liriodendron tulipifera</i>	Regular
<i>Malus</i> 'Prairie Fire'	Regular
<i>Sorbus</i> 'Joseph Rock'	Regular
<i>Crataegus laevigata</i> 'Paul's Scarlet'	Regular

Evergreen Shrubs

1. Cistus 'Silver Pink'
2. Cistus x *purpureus*
3. *Cordylone australis*
4. Escallonia 'Donard Radiance'
5. Eucunymus fortune 'Blondy'
6. Hebe 'Autumn Glory'
7. Hebe 'Midsummer Beauty'
8. Hebe 'Mrs Winder'
9. Hebe 'Silver Queen'
10. Hypericum 'Hidcote'
11. *Lavandula angustifolia*
12. *Mahonia aquifolium*
13. *Photinia x fraseri* 'Red Robin'
14. *Prunus laurocerasus* 'Otto Luyken'
15. *Viburnum tinus* 'Eve Price'
16. *Viburnum x burkwoodii*

Deciduous shrubs

Deviliana sinensis		
17. <i>Buddleja globosa</i>	Regular	3 litre
18. <i>Buddleja davidii</i> Silver Anniversary	Regular	3 litre
19. <i>Buddleja davidii</i> Royal Red	Regular	3 litre
20. <i>Coronilla 'Aurea'</i>		3 litre
21. <i>Coronilla 'Kesselblitz'</i>		3 litre
22. <i>Cytisus x praecox 'Albigo'</i>		3 litre
23. <i>Cytisus x praecox 'Albus'</i>		3 litre
24. <i>Deutzia x hybrida 'Mont Rose'</i>		2 litre
25. <i>Forsythia x intermedia 'Lynwood'</i>		2 litre
26. <i>Hydrangea 'Preziosa'</i>		3 litre
27. <i>Hydrangea macrophylla 'Albina'</i>		3 litre
28. <i>Hydrangea 'Mercedita'</i>		3 litre
29. <i>Hydrangea x clematis 'Barnley'</i>		3 litre
30. <i>Philadelphus 'Belle Etoile'</i>		3 litre
31. <i>Ribes sanguineum 'King Edward VII'</i>		3 litre
32. <i>Sambucus nigra</i>		3 litre
33. <i>Spiraea japonica 'Gold Mound'</i>		2 litre
34. <i>Spiraea 'Therapy'</i>		2 litre
35. <i>Viburnum x bodinense 'Dawn'</i>		3 litre
36. <i>Wickstroemia 'Victoria'</i>		2 litre

Grasse

37. <i>Acorus gramineus</i> 'Variegatus'	2 litre
38. <i>Carex hachijoensis</i> 'Evergold'	2 litre
39. <i>Festuca glauca</i> 'Elijah Blue'	2 litre
40. <i>Miscanthus sinensis</i> 'Zebrinus'	3 litre
41. <i>Stipa gigantea</i>	3 litre

Perennials

42. <i>Astilbe 'Fanal'</i>	2 litres
43. <i>Astilbe 'Sprite'</i>	2 litres
44. <i>Crococsmia 'Lucifer'</i>	2 litre
45. <i>Geranium 'Rozanne'</i>	2 litre
46. <i>Geranium sanguineum</i>	2 litre
47. <i>Helleborus argutifolius</i>	2 litre
48. <i>Nepeta 'Six Hills Giant'</i>	2 litre
49. <i>Penstemon 'Blackbird'</i>	2 litre
50. <i>Salvia officinalis</i>	2 litre
51. <i>Verbena bonariensis</i>	2 litre

Hedging

52. *Buxus Sempervirens* 2 litre

Ground Cover

53. *Cotoneaster* 'dammerli'
54. *Cotoneaster* 'microphyllus'
55. *Cotoneaster salicifolius* 'Repens'
56. *Cotoneaster* 'Skogholm Coral Beauty'
57. *Euonymus fortunei*
58. *Gaultheria cuneata*
59. *Hedera colchica*
60. *Hedera helix* 'White Wonder'
61. *Hydrangea calycinum*
62. *Juniperus horizontalis*
63. *Juniperus sabina* 'Tamariscifolia'
64. *Pachysandra terminalis*

Rev G: 31.05.2016: Plot numbers amended to accord with postal numbers.

Rev F: 04.05.2016: All rear garden shown moved. Plot 10 shed relocated. Plot 10-11 rear garden fence moved to reduce Plot 11 and increase Plot 10 rear garden. Turning head adjacent to Plot 9 reduced and bollards shown. Indication of boundary retaining walls amended to correspond with engineering layouts. Plot 9 rear garden fence amended to maintain path width. Plot 13 side path to rear garden shown.

Rev E: 02.02.2018: Rear garden fences abutting shared rear access paths amended to include 0.3m trellis top section.

Rev D: 08.11.2017: Rotary dryers shown to plots 2-5 and plot 11.

Rev C: 02.11.2017: Patio sizes amended. Garden fences amended from panel to close board. Plots 13 - 18 bike sheds shown. Bin locations shown to plots 9 & 10 and 14 & 15. Bin store adjacent to parking, for plots 5-8, - 10 biked.

Rev B: 31.10.2017: Amendments to affordable units: patios and paths updated and back gardens shown turfied.

Rev A: 25.10.2017: Planning Issue 1

drawing no. 16024 - RM110G

FIGURE 4: PHASED DELIVERY AREAS

PROJECT: Land at Kings Close Yapton

PREPARED: AJHT

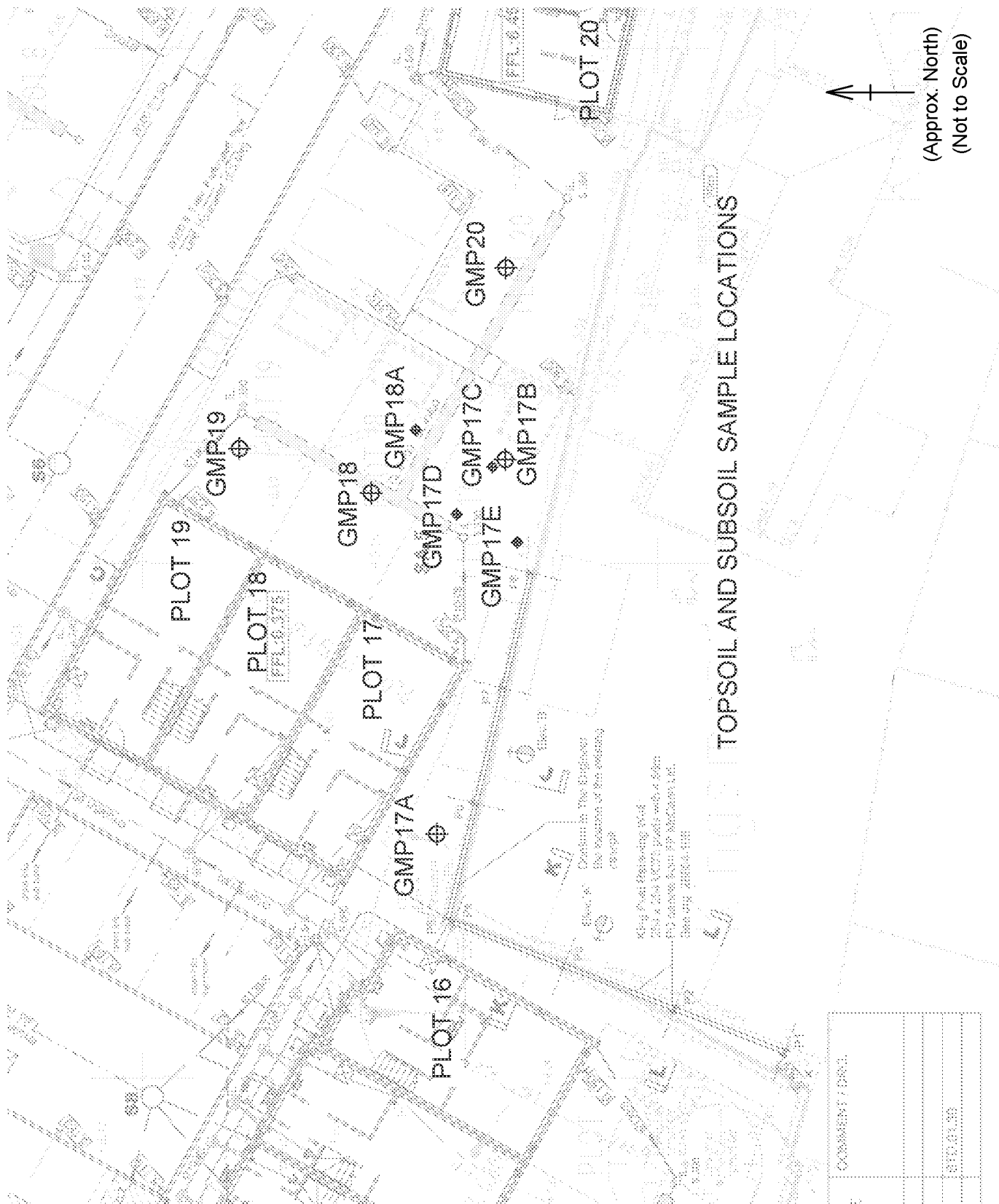
SECTION: Verification Report - Phase 1 Plots 16-20.

CHECKED: AJHT

TITLE: Verification Sample Location Plan

DATE: Dec 2018

HOLE LOCATIONS SHOWN ARE INDICATIVE ONLY UNLESS DIMENSIONED



PROJECT: Land at Kings Close Yapton

PREPARED: AJHT

SECTION: Verification Report - Phase 2 (Plots 9 - 12 & 14 -15)

CHECKED: AJHT

TITLE: Verification Sample Location Plan

DATE: Feb 2018

HOLE LOCATIONS SHOWN ARE INDICATIVE ONLY UNLESS DIMENSIONED



(Approx. North)
(Not to Scale)



PROJECT: Land at Kings Close Yapton

PREPARED: AJHT

SECTION: Verification Report - Phase 3 (Plots 2 - 8)

CHECKED: AJHT

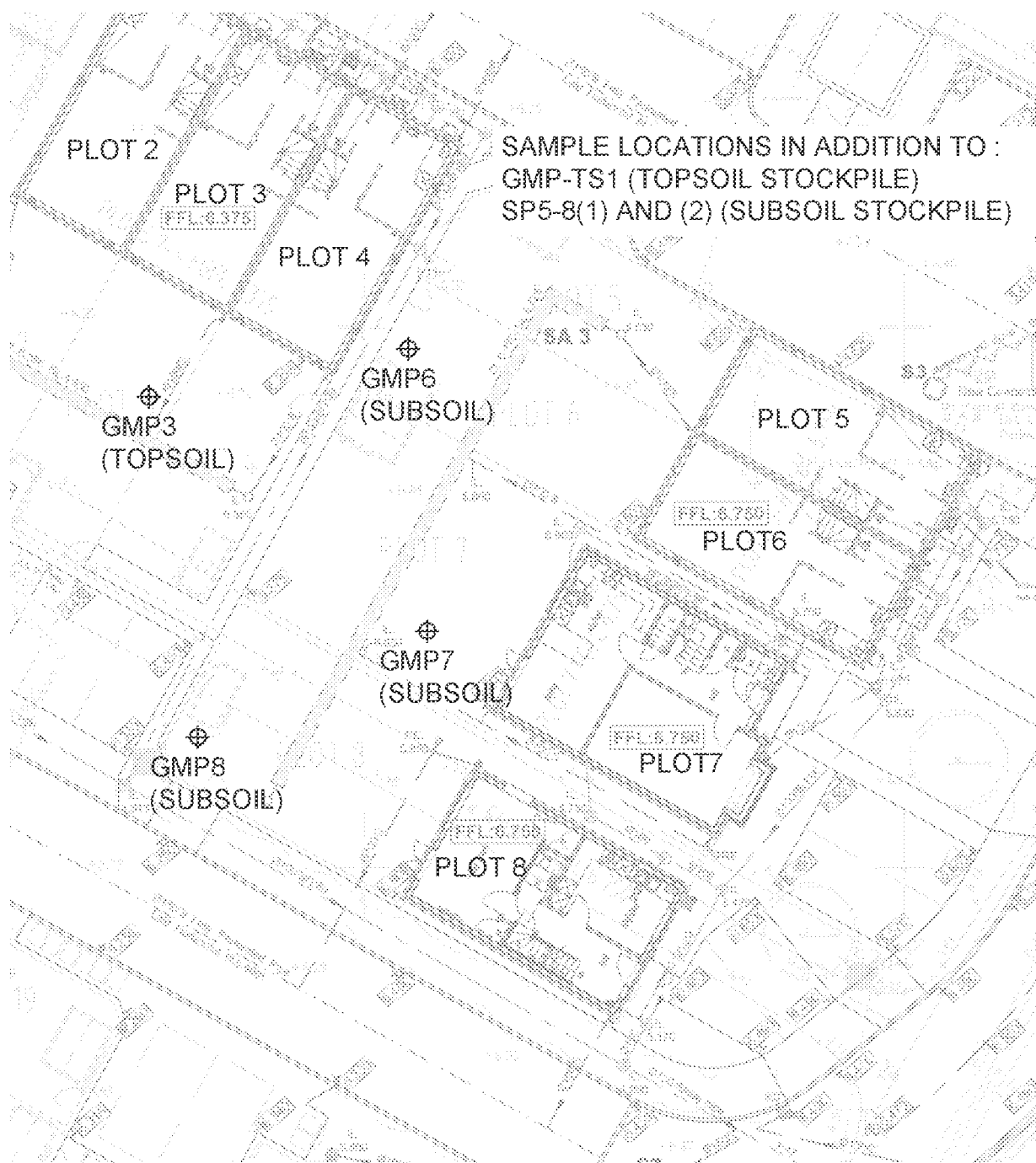
TITLE: Verification Sample Location Plan

DATE: Feb 2018

HOLE LOCATIONS SHOWN ARE INDICATIVE ONLY UNLESS DIMENSIONED



(Approx. North)
(Not to Scale)



APPENDICES

- Appendix 1: SoilFix Final Report (Under separate cover)**
- Appendix 2: Information relating to removal of soils**
- Appendix 3: Information relating to placement of cover system:**
 3.1 Excavation formation levels
 3.2 Geotextile Marker Layer
 3.3 Pre-supply test results
 3.4 Topsoil and subsoil verification test results
 3.5 Selected photographs
- Appendix 4: Criteria for imported soil**
- Appendix 5: Piling details**
- Appendix 6: Details of mains water supply network**

Appendix 1: SoilFix Final Report (Under separate cover)

Appendix 2: Information relating to removal of soils

The Hazardous Waste Regulations 2005: Consignment Note



PRODUCER'S/HOLDER'S/CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

- 1 Consignment note code: **SOILFI / 00009**
- 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
Soilfix, Kings Close, Yapton, West Sussex. BN18 0EX
- 3 The waste will be taken to (name, address and postcode):
Mick George, Mepal Soil & Waste Treatment Centre, Block Fen Drove, Mepal. CB6 2AY
- 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Ref No WAF9901

PART B Description of the waste

If continuation sheet used, tick here ☐

- 1 The process giving rise to the waste(s) was: **Demolition**
- 2 SIC (2007) for the process giving rise to the waste: **43. 11 / 0**
- 3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
Ref TP01 & TP03							
Hazardous Metal	1 7 0 5 0 3	20000	Copper	0.3%	Solid	HP7	8 wheel
Contam Soil			Lead	0.1%		HP14	tipper

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
1 7 0 5 0 3					

PART C Carrier's certificate

PART D Consignor's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

Where collection number are:

- 1 Carrier name: **Steven Smith**
On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Selby's Garage Ltd, Main Street, Woodhouse Eaves. LE12 8RY

- 2 Carrier registration no./reason for exemption:

CBDU94738

- 3 Vehicle registration no. (or mode of transport, if not road): **BU14WFN**

Signature

Date **13/07/2018**

Time **10:20**

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

- 1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Date **13/7/18**

Time **10:00**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)

- 1 I received this waste at the address given in A3 on: Date **13/07/2018** Time **10:00**

- 2 Vehicle registration no. (or mode of transport if not road):

Name:

- 3 Where waste is rejected please provide details:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

I certify that waste permit/exempt waste operation number:

authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature

Date **13/07/2018**

Time **10:00**

The Hazardous Waste Regulations 2005: Consignment Note

PART A Notification details

- 1 Consignment note code: SQICFI10001N
- 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
- 3 The waste will be taken to (name, address and postcode):
- 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

PART B Description of the wasteIf continuation sheet used, tick here ☐

- 1 The process giving rise to the waste(s) was:
- 2 SIC (2007) for the process giving rise to the waste: 1
- 3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
HARAZOUS METAL	170503	2000	COPPER	0.3%	SOLID	H373	8 L WHEEL
CONTAM SOIL			CEAD	0.1%		H310	TRANSP.

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170503					

PART C Carrier's certificate(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

When this is part of a multiple collection the round number and collection number are:

- 2 Carrier reference number:
- 3 Vehicle registration number (or mode of transport if not road):

Signature

Date 26/7/18 Time 08:47**PART D Consignor's certificate**

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Signature

Date 26/7/18 Time 08:47**PART E Consignee's certificate** (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)

- 1 I received this waste at the address given in A3 on: Date 26/7/18 Time 08:47
- 2 Vehicle registration no. (or mode of transport if not road):
- 3 Where waste is rejected please provide details:

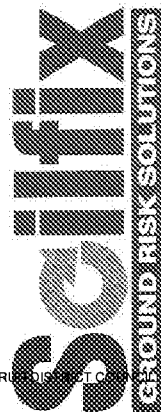
I certify that waste permit/exempt waste operation number:

authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature

Date 26/7/18 Time 08:47



Customer/Producer
Kings Close

Address
Yapton, Arundel, BN18 0XY

Driver's Name
Vehicle Reg
Vehicle Owner

Lorry Capacity 6 Wheel 8 Wheel Other

Tip Name/Address
Airlinks Golf Club

Southall Lane, Hounslow, TW5 9PE

Green Weight 32.00

Tare Weight
Net Weight

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820028
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

WASTE TRANSFER NOTE

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert
Soil &
Stone

Construction
& Demolition
Waste

Non
Hazardous
Soil & Stone

Other

Description of Material
SIC Code

Non Haz soil & stone

SP No

Print Name

Customer's Signature

Name & Address of Carrier

CB/NE5936WH

Issued by

Signed for

Soliflix Ltd

Yellow Copy - Landfill

Pink Copy - Carrier

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820028
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

WASTE TRANSFER NOTE

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert
Soil &
Stone

Construction
& Demolition
Waste

Non
Hazardous
Soil & Stone

Other

Description of Material

SIC Code

Non Haz soil & stone

SP No

Print Name

Customer's Signature

Name & Address of Carrier

CB/NE5936WH

Issued by

Signed for

Soliflix Ltd

Yellow Copy - Landfill

Pink Copy - Carrier

White Copy - Consignor

Form Soliflix Waste Transfer Note - Rev 6

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No.

850 358 820

Ticket No 16095

White Copy - Consignor

Form Soliflix Waste Transfer Note - Rev 6

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No.

850 358 820

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Registered Waste Carrier

CB/EE5503GF

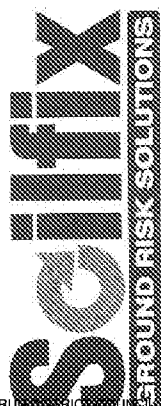
V.A.T. reg No.

850 358 820

Ticket No 16095

White Copy - Consignor

Form Soliflix Waste Transfer Note - Rev 6



10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form SREC18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

GROUND RISK SOLUTIONS

Customer/Producer: Solifix Ltd
Address: Kings Close
Yapton, Arundel, BN18 0XY

Driver's Name: [Redacted]
Vehicle Reg: [Redacted]
Vehicle Owner: [Redacted]

Lorry Capacity: 5 Wheel ☐ 8 Wheel ☒ Other ☐

Tip Name/Address: Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Date: 9/7/18
Time: 8:45
Daywork: ☐ Loadwork: ☐
Hours Worked/Waiting:
Travel Time:
Total Time:
Gross Weight: 32.00
Tare Weight:
Net Weight:
Printed by the unregistered copy of [Redacted]

WASTE TRANSFER NOTE

Description of Load

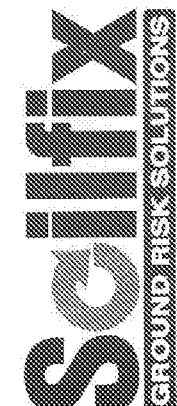
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert ☐ Construction ☐ Non ☐ Other ☐
Soil & Stone ☐ Demolition ☐ Hazardous ☒
Waste EWC17-05-04 Soil & Stone EWC17-05-04

Description of Material: Non Haz soil & stone
SP No:
SIC Code: 39 00

Customers Signature:
Print Name:
Name & Address of Carrier: Filix GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carrier Licence No: CB/NE5986WH
The undersigned confirms that the details given above are correct
Signed for: [Redacted] Solifix Ltd
Issued by: [Redacted]



10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form SREC18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

GROUND RISK SOLUTIONS

Customer/Producer: Solifix Ltd
Address: Kings Close
Yapton, Arundel, BN18 0XY

Driver's Name: [Redacted]
Vehicle Reg: [Redacted]
Vehicle Owner: [Redacted]

Lorry Capacity: 5 Wheel ☐ 8 Wheel ☒ Other ☐

Tip Name/Address: Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Date: 9/7/18
Time: 8:45
Daywork: ☐ Loadwork: ☐
Hours Worked/Waiting:
Travel Time:
Total Time:
Gross Weight: 32.00
Tare Weight:
Net Weight:
Printed by the unregistered copy of [Redacted]

WASTE TRANSFER NOTE

Description of Load

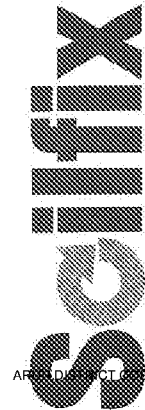
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert ☐ Construction ☐ Non ☐ Other ☐
Soil & Stone ☐ Demolition ☐ Hazardous ☒
Waste EWC17-05-04 Soil & Stone EWC17-05-04

Description of Material: Non Haz soil & stone
SP No:
SIC Code: 39 00

Customers Signature:
Print Name:
Name & Address of Carrier: Filix GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carrier Licence No: CB/NE5986WH
The undersigned confirms that the details given above are correct
Signed for: [Redacted] Solifix Ltd
Issued by: [Redacted]



10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form SHED18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

GROUND RISK SOLUTIONS

Customer/Producer Solfix Ltd
Address Kings Close
Yapton, Arundel, BN18 0XY

Driver's Name [Redacted]
Vehicle Reg [Redacted]
Vehicle Owner [Redacted]

Lorry Capacity 6 wheel [Redacted] 8 Wheel [Redacted]
Tip Name/Address Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

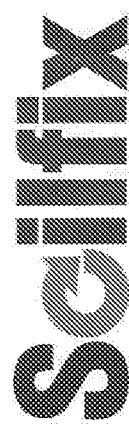
Gross Weight 32.00
Tare Weight
Net Weight

WASTE TRANSFER NOTE

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert ☐ Construction & Demolition ☐ Non Hazardous ☒ Other ☐
Soil & Stone EWC17-05-04
Waste EWC17-05-04
Description of Material Non Haz soil & stone
SIC Code 39.00 SP No

Customers Signature
Print Name
Carrier Licence No. CB/NE5986WH
The in Sign
Signed by [Redacted] CFA



10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form SHED18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Ca

GROUND RISK SOLUTIONS

Customer/Producer Solfix Ltd
Address Kings Close
Yapton, Arundel, BN18 0XY

Driver's Name [Redacted]
Vehicle Reg [Redacted]
Vehicle Owner [Redacted]

Lorry Capacity 6 Wheel [Redacted] 8 Wheel [Redacted] Other [Redacted]
Tip Name/Address Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Gross Weight 32.00
Tare Weight
Net Weight

WASTE TRANSFER NOTE

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert ☐ Construction & Demolition ☐ Non Hazardous ☒ Other ☐
Soil & Stone EWC17-05-04
Waste EWC17-05-04
Description of Material Non Haz soil & stone
SIC Code 39.00 SP No

Customers Signature [Redacted]
Print Name DAN
Name & Address of Carrier Elite GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6OA
Carrier Licence No. CB/NE5986WH
Signed by [Redacted] CFA

Customer/Producer Kings Close Address Vapton, Arundel, BN18 0XY		Date 18/7/18 Time 11:15 Daywork Loadwork Hours Worked/Waiting Travel Time Total Time
Lorry Capacity 6 wheel ☐ 8 wheel ☒	Tip Name/Address Airlinks Golf Club Southall Lane, Hounslow, TW5 9PE	Gross Weight 32.00 Tare Weight Net Weight

Customer/Producer
Kings Close
Address
Yapton, Aundel, HUNTS
Driver's Name
Vehicle Reg
Vehicle Owner

Lorry Capacity
6 Wheel
8 Wheel
Tip Name/Address
Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Date
18/7/18
Time
8:00 AM
Daywork
Loadwork
Hours Worked/Waiting
Travel Time
Total Time

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Inert
Soil & Stone
Construction & Demolition
Waste
Non Haz soil & stone
Other

Description of Material
SP No

Carrier Licence No
CB/NE5986WH
The undersigned confirms that the details given above are correct
Signed for
Suffix Ltd
Printed by
CB

Customer/Producer
Kings Close
Address
Yapton, Aundel, HUNTS
Driver's Name
Vehicle Reg
Vehicle Owner

Lorry Capacity
6 Wheel
8 Wheel
Tip Name/Address
Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Date
18/7/18
Time
11:15
Daywork
Loadwork
Hours Worked/Waiting
Travel Time
Total Time

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Inert
Soil & Stone
Construction & Demolition
Waste
Non Haz soil & stone
Other

Description of Material
SP No

Customer's Sign
Print Name
Name & Address of Carrier
Rizbury House, Green Street, Sunbury on Thames, TW16 6QA
CB/NE5986WH

Discontinuous finite

Customer/Producer Sollix Ltd / P.I.C.	Date 24/7/18
Address Kings Close Yapton, Arundel, BN18 0XY	Time 12.50
Driver's Name [REDACTED]	Daywork
Vehicle Reg [REDACTED]	Loadwork
Vehicle Owner [REDACTED]	Hours Worked/Waiting
	Travel Time
	Total Time

Lorry Capacity	6 Wheel ☐	8 Wheel ☐	Packed by the unregistered company Registered by the unregistered company
Tip Name/Address	Airlinks Golf Club Southall Lane, Hounslow, TW6 9PE		
	Gross Weight	32.10	
	Tare Weight		
	Net Weight		

Silfix
GROUND RISK SOLUTIONS

Customer/Producer Solidix Ltd / P/L LK	Date 24/7/08
Address Kings Close Yapton, Arundel, BN18 0XY	Time 12.45
Driver's Name [REDACTED]	Daywork
Vehicle Reg. [REDACTED]	Leadwork
Vehicle Owner [REDACTED]	Hours Worked/Waiting
	Travel Time
	Total Time

Lorry Capacity	8 Wheel ☐	8 Wheel ☒	Other
Tip Name/Address			
Airlinks Golf Club			
Southall Lane, Hounslow, TW5 9PE			
Gross Weight		Purchased by the unregistered owner	
Tare Weight			
Road Rating			

Description of Load _____

I confirm that I have notified my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Waste	Construction & Demolition	Non Hazardous	Other
Soil & Stone	☐	☒	☐
Waste	☐	☐	☐

EWCI7-05-04 EWCI7-05-04 EWCI7-05-04

Description of Material _____

Non Haz soil & stone

SIC Code _____ **SP No** _____

09 00

Customers Signature _____ **Print Name** _____

Carrier Licence No. CB/NE5986WH
The under signed
Signed for
Name & Address of Carrier
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA
Issued by
Name & Address of Issuing Authority
CB Environmental Services Ltd

White Copy - Consignor	Yellow Copy - Landfill
Form SMC18 Waste Transfer Note - Rev 8	
Registered Waste Carrier	CB/EES5030F
V.A.T. reg No.	
Ticket No	16104
Construction & Demolition Waste	Non Hazardous Soil & Stone
SWC17-05-04	SWC17-05-04
Other	
SP No	

Customers Signature _____ Print Name _____

Name & Address of Carrier
Fine GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

of Carrier Email: www.tol@finegb.com CBDE5986VWH

Issued by: C-11

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

☐ Inert
Soil & Stone
EWC17-05-04

☐ Construction
& Demolition
Waste
EWC17-09-04

☐ Non
Hazardous
Soil & Stone
EWC17-05-04

☐ Other

Description of Material
Non Haz soil & stone

SIC Code
3900

SP No.

Customers Signature

Print Name

Name & Address of Carrier
Elite GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carrier License
The under signed
declares that this
copy of this
note is
signed for
Carrier

Date
24/7/18

Time
8.20

Daywork

Loadwork

Hours Worked/Waiting

Travel Time

Total Time

Gross Weight
32.00

Tare Weight

Net Weight

White Copy - Consignor
Form S16016 Waste Transfer Note - Rev 8
Registered Waste Carrier
CB/EE5503GF
V.A.T. reg No. 850 358 820

Yellow Copy - Landfill

Pink Copy - Carrier

Ticket No 16102

WASTE TRANSFER NOTE

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

Scilix

GROUND RISK SOLUTIONS

Customer/Producer
Kings Close
Yapton, Arundel, BN18 0XY

Driver's Name
Vehicle Reg
Vehicle Owner

Lorry Capacity
Tip Name/Address
Southall Lane, Hounslow, TW5 9PE

8 Wheel
Airlinks Golf Club

6 Wheel
Airlinks Golf Club

Southall Lane, Hounslow, TW5 9PE

Date
24/7/18

Time
8.00

Daywork

Loadwork

Hours Worked/Waiting

Travel Time

Total Time

Gross Weight
32.00

Tare Weight

Net Weight

WASTE TRANSFER NOTE

Customer/Producer: Scilix Ltd / Kings Close
Address: Yapton, Arundel, BN18 0XY
Driver's Name: [REDACTED]
Vehicle Reg: [REDACTED]
Vehicle Owner: [REDACTED]
Lorry Capacity: ☐ 5 Wheel ☒ 8 Wheel ☐ Other
Tip Name/Address: Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE
Date: 25/7/18
Time: 7.30
Daywork: [REDACTED]
Loadwork: [REDACTED]
Hours Worked/Waiting: [REDACTED]
Travel Time: [REDACTED]
Total Time: [REDACTED]

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert ☐ Construction & Demolition Waste EWC17-05-04
Soil & Stone EWC17-05-04

Non Hazardous Soil & Stone EWC17-05-04

Other ☐

Description of Material: Non Haz soil & stone

SIC Code: 32.00

SP No: [REDACTED]

Customers Signature: [REDACTED]

Print Name: [REDACTED]

Name & Address of Carrier: Elite GB Environmental Services Ltd
Rifzbury House, Green Street, Sunbury on Thames, TW16 6QA

CB/NE5986WH

SP No: [REDACTED]

WASTE TRANSFER NOTE

Customer/Producer: Scilix Ltd / Kings Close
Address: Yapton, Arundel, BN18 0XY
Driver's Name: [REDACTED]
Vehicle Reg: [REDACTED]
Vehicle Owner: [REDACTED]
Lorry Capacity: ☐ 5 Wheel ☒ 8 Wheel ☐ Other
Tip Name/Address: Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE
Date: 25/7/18
Time: 8.00
Daywork: [REDACTED]
Loadwork: [REDACTED]
Hours Worked/Waiting: [REDACTED]
Travel Time: [REDACTED]
Total Time: [REDACTED]

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert ☐ Construction & Demolition Waste EWC17-05-04
Soil & Stone EWC17-05-04

Non Hazardous Soil & Stone EWC17-05-04

Other ☐

Description of Material: Non Haz soil & stone

SIC Code: 32.00

SP No: [REDACTED]

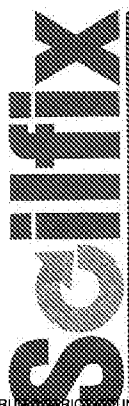
Customers Signature: [REDACTED]

Print Name: [REDACTED]

Name & Address of Carrier: Elite GB Environmental Services Ltd
Rifzbury House, Green Street, Sunbury on Thames, TW16 6QA

CB/NE5986WH

SP No: [REDACTED]



GROUND RISK SOLUTIONS

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form SDC18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

WASTE TRANSFER NOTE

Ticket No 16115

Customer/Producer: Solifix Ltd / Plowage
Address: Kings Close
Yapton, Arundel, BN18 0XY
Driver's Name: [Redacted]
Vehicle Reg: [Redacted]
Vehicle Owner: [Redacted]
Lorry Capacity: 6 Wheel ☐ 8 Wheel ☒ Other ☐
Tip Name/Address: Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE
Date: 25/7/18
Time: 12.55
Daywork: ☒
Loadwork: ☐
Hours Worked/Waiting:
Travel Time:
Total Time:
Gross Weight:
Tare Weight:
Net Weight:
Photographed by the unregistered copy of this signed copy of this note

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.
Insert ☐ Construction & Demolition Waste EWC17-05-04
Soil & Stone EWC17-05-04
Non Hazardous ☒ Soil & Stone EWC17-05-04
Other ☐
Description of Material: Non Haz soil & stone
SP No:
SIC Code: 39.00

Customers Signature:
Print Name:
Name & Address of Carrier: Solifix GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA
CB/NE5503WH

Carrier's Signature:
Print Name:
Name & Address of Consignor: 10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399



GROUND RISK SOLUTIONS

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form SDC18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

WASTE TRANSFER NOTE

Ticket No 16114

Customer/Producer: Solifix Ltd / Plowage
Address: Kings Close
Yapton, Arundel, BN18 0XY
Driver's Name: [Redacted]
Vehicle Reg: [Redacted]
Vehicle Owner: [Redacted]
Lorry Capacity: 6 Wheel ☐ 8 Wheel ☒ Other ☐
Tip Name/Address: Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE
Date: 25/7/18
Time: 12.00
Daywork: ☒
Loadwork: ☐
Hours Worked/Waiting:
Travel Time:
Total Time:
Gross Weight:
Tare Weight:
Net Weight:
Photographed by the unregistered copy of this signed copy of this note

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.
Insert ☐ Construction & Demolition Waste EWC17-05-04
Soil & Stone EWC17-05-04
Non Hazardous ☒ Soil & Stone EWC17-05-04
Other ☐
Description of Material: Non Haz soil & stone
SP No:
SIC Code: 39.00

Customers Signature:
Print Name:
Name & Address of Carrier: Solifix GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA
CB/NE5503WH

Carrier's Signature:
Print Name:
Name & Address of Consignor: 10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

Customer/Producer Kings Close
Address Yapton, Arundel, BN18 0XY
Driver's Name [REDACTED]
Vehicle Reg. [REDACTED]
Vehicle Owner [REDACTED]

Lorry Capacity ☐ 6 Wheel ☐ 8 Wheel ☒ Other [REDACTED]
Tip Name/Address Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Date 26/7/18
Time 8.00
Daywork [REDACTED]
Loadwork [REDACTED]
Hours Worked/Waiting [REDACTED]
Travel Time [REDACTED]
Total Time [REDACTED]

Gross Weight 32.00
Tare Weight [REDACTED]
Net Weight [REDACTED]

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

Customer/Producer Kings Close
Address Yapton, Arundel, BN18 0XY
Driver's Name [REDACTED]
Vehicle Reg. [REDACTED]
Vehicle Owner [REDACTED]

Lorry Capacity ☐ 6 Wheel ☐ 8 Wheel ☒ Other [REDACTED]
Tip Name/Address Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE

Date 26/7/18
Time 8.15
Daywork [REDACTED]
Loadwork [REDACTED]
Hours Worked/Waiting [REDACTED]
Travel Time [REDACTED]
Total Time [REDACTED]

Gross Weight 32.00
Tare Weight [REDACTED]
Net Weight [REDACTED]

White Copy - Consignor
Form Sheet 18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Ticket No 16116

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.
Inert ☐ Construction & Demolition Waste ☐ Non Hazardous Soil & Stone ☐ Other ☐
Description of Material Non Haz Soil & Stone
SIC Code 2390
SP No [REDACTED]

Customers Signature [REDACTED] Print Name [REDACTED]
Name & Address of Carrier Elite GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

[REDACTED]
The name of the carrier [REDACTED]
Signed [REDACTED] Carried [REDACTED]

White Copy - Consignor
Form Sheet 18 Waste Transfer Note - Rev B
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Ticket No 16110

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.
Inert ☐ Construction & Demolition Waste ☐ Non Hazardous Soil & Stone ☒ Other ☐
Description of Material Non Haz Soil & Stone
SIC Code 2390
SP No [REDACTED]

Customers Signature [REDACTED] Print Name [REDACTED]
Name & Address of Carrier Elite GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

[REDACTED]
The name of the carrier [REDACTED]
Signed [REDACTED] Carried [REDACTED]

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor

Form S1618 Waste Transfer Note - Rev 6

Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820

Yellow Copy - Landfill

Pink Copy - Carrier

WASTE TRANSFER NOTE

Customer/Producer Kings Close	Scilix Ltd 10 St. Martins
Address Yapton, Arundel, BN18 0XY	
Driver's Name	
Vehicle Reg	
Vehicle Owner	

Lorry Capacity 5 Wheel ☐ 4 Wheel ☒	Printed by the unregistered copy of ☐
Tip Name/Address Airlinks Golf Club Southall Lane, Hounslow, TW5 9PE	
Gross Weight 32.00	Tare Weight
Net Weight	

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor

Form S1618 Waste Transfer Note - Rev 6

Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820

Yellow Copy - Landfill

Pink Copy - Carrier

WASTE TRANSFER NOTE

Customer/Producer Kings Close	Scilix Ltd 10 St. Martins
Address Yapton, Arundel, BN18 0XY	
Driver's Name	
Vehicle Reg	
Vehicle Owner	

Lorry Capacity 6 Wheel ☐ 4 Wheel ☒ Other ☐	Printed by the unregistered copy of ☐
Tip Name/Address Airlinks Golf Club Southall Lane, Hounslow, TW5 9PE	
Gross Weight 32.00	Tare Weight
Net Weight	

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert Soil & Stone EWC17-05-04	Construction & Demolition Waste EWC17-05-04	Hazardous Soil & Stone EWC17-05-04	Other ☐
---	--	--	-----------------------------------

Description of Material Non Haz soil & stone	SIC Code 39.00	SP No
---	-------------------	-------

Customer's Signature	Print Name
----------------------	------------

Name & Address of Carrier
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carrier Licence No. CB/NE5986WH	Issued by CA
------------------------------------	-----------------

Signed for Solifix Ltd	Signed for Solifix Ltd
---------------------------	---------------------------

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert Soil & Stone EWC17-05-04	Construction & Demolition Waste EWC17-05-04	Hazardous Soil & Stone EWC17-05-04	Other ☐
---	--	--	-----------------------------------

Description of Material Non Haz soil & stone	SIC Code 39.00	SP No
---	-------------------	-------

Customer's Signature	Print Name
----------------------	------------

Name & Address of Carrier
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carrier Licence No. CB/NE5986WH	Issued by CA
------------------------------------	-----------------

Signed for Solifix Ltd	Signed for Solifix Ltd
---------------------------	---------------------------

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form Sheet 013 Waste Transfer Note - Rev 6
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

WASTE TRANSFER NOTE

Ticket No 16119

Customer/Producer Solifix Ltd
Address Kings Close
Yapton, Arundel, BN18 0XY
[Redacted]
Driver's Name
Vehicle Reg
Vehicle Owner

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.
☐ Inert ☐ Construction & Demolition Waste ☐ Non Hazardous Soil & Stone EWC17-05-04 ☐ Other
☐ Soil & Stone EWC17-05-04
Description of Material Non Haz soil & stone
SIC Code 39 00
SP No

Lorry Capacity 6 Wheel ☐ & Wheel ☒ Other ☐
Tip Name/Address Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE
Gross Weight 32.00
Tare Weight
Net Weight

Customers Signature
Print Name
Name & Address of Carrier eho GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA
CB/EE5503GF
Issued by CA
Signed for
Carrier Solifix Ltd

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor
Form Sheet 013 Waste Transfer Note - Rev 6
Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
Yellow Copy - Landfill
Pink Copy - Carrier

WASTE TRANSFER NOTE

Ticket No 16111

Customer/Producer Solifix Ltd
Address Kings Close
Yapton, Arundel, BN18 0XY
[Redacted]
Driver's Name
Vehicle Reg
Vehicle Owner

Description of Load
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.
☐ Inert ☐ Construction & Demolition Waste ☐ Non Hazardous Soil & Stone EWC17-05-04 ☐ Other
☐ Soil & Stone EWC17-05-04
Description of Material Non Haz soil & stone
SIC Code 39 00
SP No

Lorry Capacity 6 Wheel ☐ 8 Wheel ☒ Other ☐
Tip Name/Address Airlinks Golf Club
Southall Lane, Hounslow, TW5 9PE
Gross Weight
Tare Weight
Net Weight

Customers Signature
Print Name
Name & Address of Carrier eho GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA
CB/EE5503GF
Issued by CA



Ritzbury House, Bridge Foot, Green Street, Sunbury on Thames TW16 6QA
Tel: 01932 782305 Fax: 01932 751114 Email: info@elite-environmental.com

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

Customer: Soil Fix Date: 7-8-18
Site Address: Yapton Vehicle Reg: EJOL MJC
Driver's Name: [REDACTED]

EUROPEAN WASTE CODE

- ☐ 17.01.07 Clean Hardcore (Brick/Concrete)
☒ 17.05.04 Soil & Stones (Inert)
☐ 17.09.04 Mixed Construction (Rubbish)
☐ 20.02.01 Garden/Park Waste (Biodegradable)
☐ Other (Specify) _____

QUANTITY
(As measured by customer)

8x4

Time on Site: _____
Time off Site: _____
Tipper ☐ Grab ☐

SIC Code: _____

WASTE DISPOSAL AUDIT

Tip Tkt. No. _____

Other Services _____

SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
[REDACTED]	11 load	Gross Weight of Vehicle at Weighbridge Tare Weight of Vehicle	•
		Nett Weight	•

N.B. To customers, authorised agents, representatives, or responsible persons signing this delivery ticket. This is in your interest. Please read this ticket carefully and inspect material, agreeing quantity, quality and that everything is to your satisfaction before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. Certified that the above particulars are true and relate to the aggregates, sub-base materials and arising materials being conveyed or disposed of in pursuance of the sale. An unsigned ticket is not a valid reason for non-payment of invoice.

The waste management hierarchy has been considered in deciding the most appropriate waste management option.

Signed by [REDACTED] Site [REDACTED]
Print [REDACTED]



Ritzbury House, Bridge Foot, Green Street, Sunbury on Thames TW16 6QA
Tel: 01932 782305 Fax: 01932 751114 Email: info@elite-environmental.com

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

Customer: Soil Fix Date: 7-8-18
Site Address: Yapton Vehicle Reg: EJOL MJC
Driver's Name: Ken

EUROPEAN WASTE CODE

- ☐ 17.01.07 Clean Hardcore (Brick/Concrete)
☒ 17.05.04 Soil & Stones (Inert)
☐ 17.09.04 Mixed Construction (Rubbish)
☐ 20.02.01 Garden/Park Waste (Biodegradable)
☐ Other (Specify) _____

Time on Site: _____

Time off Site: _____

Tipper ☒ Grab ☐

SIC Code: _____

WASTE DISPOSAL AUDIT

Tip Tkt. No. _____

Other Services _____

SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
[REDACTED]	11 load	Gross Weight of Vehicle at Weighbridge Tare Weight of Vehicle	•
		Nett Weight	•

N.B. To customers, authorised agents, representatives, or responsible persons signing this delivery ticket. This is in your interest. Please read this ticket carefully and inspect material, agreeing quantity, quality and that everything is to your satisfaction before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. Certified that the above particulars are true and relate to the aggregates, sub-base materials and arising materials being conveyed or disposed of in pursuance of the sale. An unsigned ticket is not a valid reason for non-payment of invoice.

The waste management hierarchy has been considered in deciding the most appropriate waste management option.

Signed by [REDACTED] Site [REDACTED]
Print [REDACTED]



Ritzbury House, Bridge Foot, Green Street, Surlbury on Thames TW16 6QA
Tel: 01932 782305 Fax: 01932 751114 Email: info@elite-environmental.com

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

Customer: SOLFIX Date: 1-8-18
Site Address: Kings Close Vehicle Reg: RO6VAD
Driver's Name: Yasmin

EUROPEAN WASTE CODE

- ☐ 17.01.07 Clean Hardcore (Brick/Concrete)
☒ 17.05.04 Soil & Stones (Inert)
☐ 17.09.04 Mixed Construction (Rubbish)

- ☐ 20.02.01 Garden/Park Waste (Biodegradable)
☐ Other (Specify)

WASTE DISPOSAL AUDIT

Other Services

QUANTITY
(As measured by customer)
1 x 2

Time on Site
Time off Site
Tipper ☒ Grab ☐

SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION:-		Gross Weight of Vehicle at Weighbridge	*
		Tare Weight of Vehicle	*
		Nett Weight	*

N.B. To customers, authorised agents, representatives, or responsible persons signing this delivery ticket. This is in your interest. Please read this ticket carefully, and inspect material, agreeing quantity, quality and that everything is in your satisfaction before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. Certified that the above particulars are true and correct to the aggregate, sub-based materials and arising materials being conveyed or disposed of in pursuance of the sale. An unsigned ticket is not a valid reason for non-payment of invoices.

The waste management hierarchy has been considered and the most appropriate waste management option

Driver's Name: [Redacted]
Customer's Name: [Redacted]



Ritzbury House, Bridge Foot, Green Street, Surlbury on Thames TW16 6QA
Tel: 01932 782305 Fax: 01932 751114 Email: info@elite-environmental.com

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

Customer: SOLFIX Date: 1-8-18
Site Address: Kings Close Vehicle Reg: RO6VAD
Driver's Name: Yasmin

EUROPEAN WASTE CODE

- ☐ 17.01.07 Clean Hardcore (Brick/Concrete)
☒ 17.05.04 Soil & Stones (Inert)
☐ 17.09.04 Mixed Construction (Rubbish)

- ☐ 20.02.01 Garden/Park Waste (Biodegradable)
☐ Other (Specify)

WASTE DISPOSAL AUDIT

Other Services

QUANTITY
(As measured by customer)
1 x 2

Time on Site
Time off Site
Tipper ☒ Grab ☐

SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION:-		Gross Weight of Vehicle at Weighbridge	*
		Tare Weight of Vehicle	*
		Nett Weight	*

N.B. To customers, authorised agents, representatives, or responsible persons signing this delivery ticket. This is in your interest. Please read this ticket carefully, and inspect material, agreeing quantity, quality and that everything is in your satisfaction before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. Certified that the above particulars are true and correct to the aggregate, sub-based materials and arising materials being conveyed or disposed of in pursuance of the sale. An unsigned ticket is not a valid reason for non-payment of invoices.

The waste management hierarchy has been considered and the most appropriate waste management option

Driver's Name: [Redacted]
Customer's Name: [Redacted]



Ritzbury House, Bridge Foot, Green Street, Sunbury on Thames TW16 6QA
Tel: 01932 782305 Fax: 01932 751114 Email: info@elite-environmental.com

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

Customer: SOIL EX Date: 07.08.18
Site Address: YAPTON Vehicle Reg: HX0AEG
Driver's Name: DAV

EUROPEAN WASTE CODE

☐ 17.01.07 Clean Hardcore (Brick/Concrete) ☐ 17.05.04 Soil & Stones (Inert) ☐ 17.09.04 Mixed Construction (Rubbish) ☐ 20.02.01 Garden/Park Waste (Biodegradable) ☐ Other (Specify): MIA

QUANTITY
(As measured by customer)
1 x 8

Time on Site: ☐
Time off Site: ☐
Tipper: ☒ Grab: ☐

WASTE DISPOSAL AUDIT

Tip Tot. No.

Other Services

SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION: <u>now HAZ</u> <u>MUCK</u> <u>AWAY</u>	<u>1 x 8</u>	Gross Weight of Vehicle at Weighbridge Tare Weight of Vehicle Net Weight	

4.8. To customers, authorised agents, representatives, or responsible persons signing this delivery ticket. This is in your interest. Please read this ticket carefully and inspect material, quantity, quality and that everything is to your satisfaction before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. Certified that the above particulars are true and relate to the appropriate, sub-based materials and arising materials being conveyed or disposed of in pursuance of the sale. An unsigned ticket is not a valid reason for non-payment of invoice.

The waste management hierarchy has been considered in deciding the most appropriate waste management option.

Driver: ☐ Signed by: ☐ Production/Site: ☐
Cash/Invoice received: ☐ Price: ☐



Ritzbury House, Bridge Foot, Green Street, Sunbury on Thames TW16 6QA
Tel: 01932 782305 Fax: 01932 751114 Email: info@elite-environmental.com

DUTY OF CARE CONTROLLED WASTE TRANSFER NOTE

Customer: SOIL EX Date: 07.08.18
Site Address: YAPTON Vehicle Reg: HX0AEG
Driver's Name: DAV

EUROPEAN WASTE CODE

☐ 17.01.07 Clean Hardcore (Brick/Concrete) ☐ 17.05.04 Soil & Stones (Inert) ☐ 17.09.04 Mixed Construction (Rubbish) ☐ 20.02.01 Garden/Park Waste (Biodegradable) ☐ Other (Specify): MIA

QUANTITY
(As measured by customer)
1 x 8

Time on Site: ☐
Time off Site: ☐
Tipper: ☒ Grab: ☐

WASTE DISPOSAL AUDIT

Tip Tot. No.

Other Services

SALE OF MATERIALS	VOLUME	WEIGHT	TONNES
MATERIAL DESCRIPTION: <u>now HAZ</u> <u>MUCK</u> <u>AWAY</u>	<u>1 x 8</u>	Gross Weight of Vehicle at Weighbridge Tare Weight of Vehicle Net Weight	

4.8. To customers, authorised agents, representatives, or responsible persons signing this delivery ticket. This is in your interest. Please read this ticket carefully and inspect material, quantity, quality and that everything is to your satisfaction before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. Certified that the above particulars are true and relate to the appropriate, sub-based materials and arising materials being conveyed or disposed of in pursuance of the sale. An unsigned ticket is not a valid reason for non-payment of invoice.

The waste management hierarchy has been considered in deciding the most appropriate waste management option.

Driver: ☐ Signed by: ☐ Production/Site: ☐
Cash/Invoice received: ☐ Price: ☐

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820028
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor

Form Sheet 18 Waste Transfer Note - Rev B

Yellow Copy - Landfill

Pink Copy - Carrier

Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820

WASTE TRANSFER NOTE

Ticket No 16095

Customer/Producer
Kings Close

Address
Yapton, Arundel, BN18 0XY

Driver's Name

Vehicle Reg

Vehicle Owner

Capacity

6 Wheel ☐ 8 Wheel ☒ Other ☐

Name/Address
Arlinks Golf Club

Southall Lane, Hounslow, TW5 9PE

Gross Weight 32.00

Tare Weight

Net Weight

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert
Soil &
Stone EWC17-05-04

Construction
& Demolition
Waste EWC17-09-04

Non
Hazardous
Soil & Stone EWC17-05-04

Other ☐

Description of Material

SIC Code

Non Haz soil & stone

Other ☐

SP No

Customer's Signature

Print Name

Name & Address of Carrier

File GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carriage License No. CB/EE5503GF

Issued by

CP

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820028
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

White Copy - Consignor

Form Sheet 18 Waste Transfer Note - Rev B

Yellow Copy - Landfill

Pink Copy - Carrier

Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820

WASTE TRANSFER NOTE

Ticket No 16094

Customer/Producer
Kings Close

Address
Yapton, Arundel, BN18 0XY

Driver's Name

Vehicle Reg

Vehicle Owner

Capacity

6 Wheel ☐ 8 Wheel ☒ Other ☐

Name/Address
Arlinks Golf Club

Southall Lane, Hounslow, TW5 9PE

Gross Weight 32.00

Tare Weight

Printed by the unregistered

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert
Soil &
Stone EWC17-05-04

Construction
& Demolition
Waste EWC17-09-04

Non
Hazardous
Soil & Stone EWC17-05-04

Other ☐

Description of Material

SIC Code

Non Haz soil & stone

Other ☐

SP No

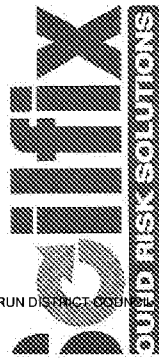
Customer's Signature

Print Name

Name & Address of Carrier

File GB Environmental Services Ltd
Ritzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carriage License No. CB/EE5503GF



Customer/Producer

Kings Close

Yapton, Arundel, BN18 0XY

Driver's Name

Vehicle Reg

Vehicle Owner

Capacity

6 Wheel

8 Wheel

Other

Name/Address

Airlinks Golf Club

Southall Lane, Hounslow, TW5 9PE

Gross Weight

32.00

Tare Weight

Net Weight

Printed by the unregistered copy of

Carfax

The under

Signed

Carrier

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
Telephone: (01179) 820025 Fax: (01179) 820026
23 Bellingham Lane, Rayleigh, Essex, S56 7ED
Telephone: (01268) 502272 Fax: (01268) 779399

WASTE TRANSFER NOTE

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Date 9/7/18

Time 8.45

Daywork

Loadwork

Hours Worked/Waiting

Travel Time

Total Time

Insert

Construction & Demolition

Waste

Non Haz soil & stone

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

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EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

Non

Hazardous

Soil & Stone

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

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EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

Other

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

EWCT17-05-04

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SP No.

White Copy - Consignor

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

Yellow Copy - Landfill

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

Pink Copy - Carrier

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

Yellow Copy - Landfill

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

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CB/EE5503GF

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CB/EE5503GF

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CB/EE5503GF

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CB/EE5503GF

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CB/EE5503GF

V.A.T. reg No. 850 358 820

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CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

Pink Copy - Carrier

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

Yellow Copy - Landfill

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820

Ticket No 16092

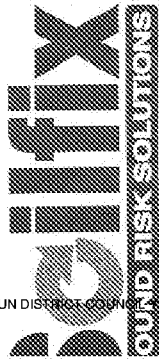
Pink Copy - Carrier

Form SHED18 Waste Transfer Note - Rev B

Registered Waste Carrier

CB/EE5503GF

V.A.T. reg No. 850 358 820</



10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
 Telephone: (01179) 820025 Fax: (01179) 820026
 23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
 Telephone: (01268) 502272 Fax: (01268) 779399

Stone/Producer Solifix Ltd

Address Kings Close

Yapton, Arundel BN18 0XY

Driver's Name DAN

Vehicle Reg HX10 AEG

Vehicle Owner YES

Vehicle Capacity 6 Wheel ☐ 8 Wheel ☒ Other ☐

Name/Address

Airlinks Golf Club

Southall Lane, Hounslow, TW5 9PE

WASTE TRANSFER NOTE

Date 9/7/18
 Time 8.45
 Daywork
 Loadwork
 Hours Worked/Waiting
 Travel Time
 Total Time

Description of Load

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert Soil & Stone EWC17-05-04

Construction & Demolition Waste EWC17-05-04

Non Hazardous Soil & Stone EWC17-05-04

Other

Description of Material Non Haz soil & stone

SIC Code 3800

SP No

Customer's Signature

Print Name

Name & Address of Carrier

Elite CE Environmental Services Ltd

Ritzbury House, Green Street, Sunbury on Thames, TW16 8QA

Carrier Licence No

CB/NE5986WH

Issued by

EA

The carrier signed confirms that the details given above are correct

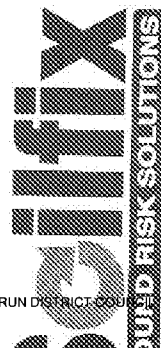
Signed for

Suffix 1

Signature Date: www.colerpiet.com

Ticket No 16090

10 St. Martins Industrial Park, Avonmouth, Bristol BS11 0RS
 Telephone: (01179) 820025 Fax: (01179) 820026
 23 Bellingham Lane, Rayleigh, Essex, SS6 7ED
 Telephone: (01268) 502272 Fax: (01268) 779393



to: Solifix Ltd
 mess: Kings Close
 Yapton, Arundel, BN18 0XY

er's Name: NICO
 cle Reg: CM61 SZL
 cle Owner: X

Capacity: 6 Wheel ☐ 8 Wheel ☒
 ame/Address: Airlinks Golf Club
 Southall Lane, Hounslow, TW5 9PE

Gross Weight: 32.00
 Tare Weight:
 Net Weight:

WASTE TRANSFER NOTE

Date: 9/7/18
 Time: 1.00
 Daywork:
 Loadwork:
 Hours Worked/Waiting:
 Travel Time:
 Total Time:

Produced by the unregistered copy of

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 Form SHW018 Waste Transfer Note - Rev B
 Registered Waste Carrier CB/EE5503GF V.A.T. reg No. 850 358 820
 Yellow Copy - Landfill
 Pink Copy - Carrier

Ticket No 16093

Description of Load
 I confirm that I have published my data to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Inert Soil & Stone EWC17-05-04
 Construction & Demolition Waste EWC17-05-04
 Non Hazardous Soil & Stone EWC17-05-04
 Other

Description of Material: Non Haz soil & stone
 SIC Code: 3800
 SP No:

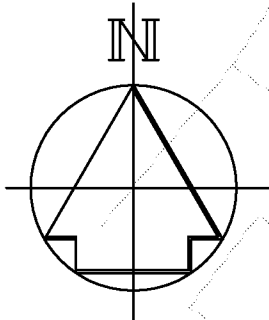
Customer's Signature
 Print Name:

Customer's Name & Address at time of transfer
 WMS Corporate Ltd Environmental Services Ltd
 Fitzbury House, Green Street, Sunbury on Thames, TW16 6QA

Carrier Licence No: CB/NE5986WH
 Issued by: CFA

Signature: [Redacted]

Appendix 3.1: Excavation formation levels



OUTSTANDING DESIGN ISSUES:

- Highway Works Agreement
- Sewer Connection Agreement
- Precise RWP Locations
- Precise Foul Outlet Locations
- Foundation (Pile & Ground Beam) Details
- Retaining Wall Design

Notes

- This drawing to be read in conjunction with all relevant Architects and Engineers drawings and specifications.
- Dimensions are in millimetres unless noted otherwise.
- Original topographic survey undertaken by Kings Surveyors.
For full topographic survey information see Kings drawing No. 96926.0001.
All levels based on O.S. Datum by GPS.
- Existing levels shown thus:
- Before excavation commences, the Contractor shall ascertain the depths, sizes and locations of all services to be crossed. Any conflicts in levels between new works and existing services shall be notified to the Engineer.
- All drainage shall be in accordance with Building Regulations 2002: Part H & W.S.A Sewers for Adoption 7th edition.
- Details of existing sewers & drains shall be confirmed by the contractor on site prior to the commencement of works.
- Sewers of different diameters shall be laid soffit to soffit in manholes, unless backdrops are detailed.
- Private drains passing through walls and footings are to be sleeved and a 600mm length of rocker pipe shall be laid on each side of the wall or footing. Runs under building shall have a type 'S' bed and surround, unless depth below underside of slab is less than 300mm where a 150mm bed and surround of concrete is to be used. Where pipes pass beneath foundations 600mm length rocker pipes shall be laid on each side. Below is shown a typical detail of a pipe sleeved through a foundation:
- Manhole (M.H.) covers and inspection chamber (I.C.) shall be adjusted to suit final surface levels.
- Where trench foundation levels lie above original levels, levels shall be made up with either well compacted layers of D.O.T type 1 or mix ST2 concrete.
- For positions of SVP's stub stacks and rainwater pipes see detailed Architects layouts.
- Minimum gradients for pipes where no gradient is shown shall be 1:80.
- Dimensions of M.H. on private drains and sewers to be in accordance with requirements of the Building Regulations.
- Drainage trenches lower than foundations:
a) Where drainage trench is within 1.0 distance of a building the trench is to be filled with concrete mix ST 2 up to the level of the foundation, in accordance with Building Regulation 2002: Part H, diagram 8.
b) Where drainage trench is further than distance 'A' from footing and the depth of trench below foundation level is greater than 'A' the lower trench shall be filled with concrete mix ST 2 such that the top level of concrete infill is no less than (A' - 150mm) below foundation level. Notes a) and b) are represented diagrammatically below:

- Pipe materials shall be:
a) For external private drain runs:
i) Clay pipes, extra strength or super strength in accordance with BS EN 295: 1991
ii) UPVC pipes in accordance with BS 4660 & BS 5481: 1989 (flexible pipes)
iii) Ductile iron pipe work in accordance with BS EN 588, as Stanton Integral with high performance joints or equivalent.
b) For adoptable sewers/highway drains, see longitudinal sections.
- Definition of 'rigid' and 'flexible' pipes shall be as Building Regulations Part H, table 7.
- Flexible pipes - Where private flexible pipes have more than 900mm cover under vehicular areas and more than 600mm cover under gardens, bedding and backfill shall be Type S as shown on drawing STD.01.85.
For special protection where pipes are laid with less cover see notes below.
a) Where private flexible pipes have less than 900mm cover under vehicular areas, a reinforced concrete bridging slab shall be used (as Type 'Y' drawing STD.01.85) Reference Building Regulations 2002: Part H.
b) Where private flexible pipes have less than 600mm cover under gardens, concrete paving slabs laid as bridging slab shall be used (as Type 'X' drawing STD.01.85.) Reference Building Regulations 2002: Part H.
- Rigid pipes - Bedding and backfill shall be Type 'S' as shown on drawing STD.01.85, except on lengths where special protection is required (see notes below).
a) Where ≥ 100 mm private rigid pipes have less than 400mm cover under vehicular areas, a Type 'Z' concrete surround shall be used (see drawing STD.01.85) Reference Building Regulations 2002: Part H.
b) Where ≥ 100 mm private rigid pipes have less than 300mm cover under garden areas, a Type 'Z' concrete surround shall be used (see drawing STD.01.85) Reference Building Regulations 2002: Part H.
c) Where ≥ 150 mm private rigid pipes have less than 600mm cover under any areas, a Type 'Z' concrete surround shall be used (see drawing STD.01.85) Reference Building Regulations 2002: Part H.
- Private storm and foul drainage connections shall be detailed by the Architect.
- All external rainwater down pipes shall discharge through a proprietary bottle gully as shown on drawing STD.01.12.
- Trenches below existing carriageways and parking areas shall be reinstated with D.O.E Type 1 material in accordance with standard detail STD.02.05.
- Gullies RG1, RG2 & RG5 shall be brickwork in accordance with standard detail STD.01.10. Road gullies RG3 & RG4 shall be trapped in accordance with detail STD.01.05 Type 1T.
- All utility covers & frames within the extent of the works shall be adjusted as necessary. The Contractor shall ensure that all services within vehicular areas have appropriate grade covers & frames as shown below:
Vehicular areas: D400 Pedestrian areas: B125

WARNINGS :

- Contaminated Ground : Remediation of contaminated soils may be required in the vicinity of soakaway structures that will concentrate flows into the ground. See Ground Management Report G5008.
- Foul Drains / Sewers : Due to the close proximity of permeable pavements to foul drain runs on the site, it is not anticipated that Southern Water will adopt any of the new foul drainage system apart from manhole F3.

P2 SOAKAWAYS MADE SHALLOWER & WIDER - PF-06-03-16

REV	DESCRIPTION	CHECKED	DATE
-----	-------------	---------	------

Archibald Shaw

Consulting Civil & Structural Engineers
One Little London, Chichester, West Sussex PO19 1PP
Telephone: 01243 786471 Facsimile: 01243 779346
mail@archibaldshaw.co.uk www.archibaldshaw.co.uk

CLIENT
Plotlife

PROJECT
Housing Development
Kings Close, Yapton
General Arrangement showing Drainage

DRAWN BY	CHECKED BY	DESIGNED BY
PF	VC	PF
SCALE @ A1	@DATE	STATUS
1:200	Jan. 2018	Preliminary
JOB NO.	DRAWING NO.	REVISION
28854	101	P2

FOUL MANHOLE SCHEDULE

M.H. REF.	INVERT LEVEL LOWEST PIPE	COVER LEVEL	CHAMBER SIZE INTERNAL DIMS	COVER SIZE CLEAR OPENING	COVER TYPE	M.H. TYPE	COMMENT / DRG.
F1	3.370	6.100	EXISTING MH	EXISTING	-	-	
F2	3.750	6.480	EXISTING MH	EXISTING	-	-	
F3*	4.080	6.460	Ø1200	675 x 675	D400	B	STD.01.30
F4	4.200	6.340	EXISTING MH	EXISTING	-	-	

*NOTE: Southern Water connection / new manhole licence required

SURFACE WATER MANHOLE SCHEDULE

M.H. REF.	INVERT LEVEL LOWEST PIPE	COVER LEVEL	CHAMBER SIZE INTERNAL DIMS	COVER SIZE CLEAR OPENING	COVER TYPE	M.H. TYPE	COMMENT / DRG.
S1	5.770	6.420	EXISTING MH	EXISTING	-	-	EXISTING MH
S2	5.450	6.455	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S3	-	6.380	EXISTING MH	EXISTING	-	-	DEMOLISH EXT. MH
S4	5.450	6.300	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S5	5.400	6.325	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S6	5.400	6.220	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S7	5.400	6.450	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S8	5.400	6.200	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S9	5.850	6.200	750 x 675	750 x 600	D400	P2	STD.01.22
S10	5.510	6.500	750 x 675	750 x 600	D400	P2	STD.01.22

SOAKAWAY SCHEDULE

TYPE	EFFECTIVE DEPTH (H)	TOTAL DEPTH (m)	RING DIA. (m)	PIT DIMENSIONS PLAN (L x W)	COVER SIZE (CLEAR OPENING) (mm)	COVER TYPE	COMMENT
SA A'	1.200	1.700	-	4.00 x 2.00	2 x Ø225	B125	SEE DRAWING FOR DETAILS
SA B'	1.200	1.700	-	3.00 x 2.00	2 x Ø225	B125	SEE DRAWING FOR DETAILS
SA C'	1.200	1.700	-	7.00 x 2.00	2 x Ø225	B125	SEE DRAWING FOR DETAILS

- A Lotrak 1800 geotextile or equivalent surround is required.
- Soakaways shall be a minimum of 5.0m from any buildings or structures.
- The Contractor shall immediately notify the Engineer if groundwater is encountered in soakaway pits.
- A provisional soil infiltration rate of 2.50 x 10⁻⁴ m/sec has been used for soakaway design.

KEY

- TOPOGRAPHICAL SURVEY
- PROPOSALS
- PROPOSED SURFACE WATER DRAINS @ 100 UNLESS NOTED OTHERWISE
- SURFACE WATER MANHOLE/ Ø 450 INSPECTION CHAMBER/ RODDING EYE
- EXISTING FOUL WATER SEWER
- FULLY PERFORATED DISTRIBUTION PIPE
- FOUL WATER MANHOLE/Ø 450 INSPECTION CHAMBER/ RODDING EYE
- GRADIENT BED TYPE (SEE STD.01.85)
- PIPE DIAMETER
- DIRECTION OF FLOW
- DRAIN TO BE ABANDONED
- HIGH STORAGE SOAKAWAY. SEE SCHEDULE

NOTE BASE DRAWING IS OUT OF DATE USE FOR FORMATION LEVELS ONLY!!

3.2 Geotextile Marker Layer



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For more information and to amend your preferences, click the "Show details" button.

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Necessary Preferences Statistics Marketing Show details

OK

Geotextiles

Terram Hi-Vis

Application Function
Filter separators

Market Sectors
Landfill

Terram Hi-Vis is a non-woven orange geotextile used for separating contaminated/uncontaminated soils.

The geotextiles has a dual effect: its vivid colour warns of potential danger at the point of any future excavations and it can also prevent the upward movement of contaminated soil particles.

Terram Hi-Vis

- is a highly-visible separator
- prevents intermixing of adjacent mineral layer
- is quick and easy to install
- is supplied in 4.5m x 100m rolls for rapid coverage
- available in a number of strengths to suit site requirements



Downloads



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Solutions

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High Visibility

Technical Datasheet

Highly visible, Lotrak® Alarm18 has been specifically developed as a contaminated ground warning or marker geomembrane.

Designed to complement the existing Lotrak® range, Don & Low have drawn on their expertise and knowledge of this market sector and provided a combination of factors that has resulted in the development of this multi-functional geosynthetic material.

With increasing demand for good building land, reclamation of industrial zones are becoming more common place, potential hazards are now often buried and contained underground as an alternative to removal. Good environmental construction practice utilises Lotrak® Alarm18 to notify future contractors and excavators of these hidden hazards.

Features

- ^ With good tensile strength, CBR properties and a strong visual appearance Lotrak® Alarm18 provides a high performance underground warning system
- ^ Based on well-established Lotrak® 1800, Lotrak® Alarm18 performs excellently as a separating geotextile in a wide range of civil engineering applications

Benefits

- ^ Proven superior performance
- ^ UV resistant and highly durable
- ^ Highly visible



TEST	STANDARD		Alarm18
Tensile Strength (kN/m)	EN 10319	MD CD	12 12
Elongation at max. load (%)	EN 10319	MD CD	22 18
CBR Puncture Resistance (N)	EN ISO 12236		1800
Cone Drop Penetration (mm)	EN 918		14
Pore size 90% finer than (microns)	EN ISO 12956		200
Water Permeability (x 10 ⁻³) (m/sec)	EN ISO 11058		18
Effect of UV Light	The polypropylene (PP) used contains a UV inhibitor		
Roll Size (m)		Width Length	4.5 100



All products are manufactured under BS EN ISO 9001.

Don & Low reserves the right to change specifications or other product information. Don & Low accepts no responsibility or liability for information provided by third parties. No warranties, express or implied, are offered regarding the suitability of any product for your use, as site conditions and customer requirements vary. Should you require further information, please contact us. Products are sold subject to the seller's terms and conditions of sale. No warranty or immunity is offered against infringement of patents or other intellectual property rights.

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3.3 Pre-supply test results

Topsoil Compliance BS3882:2015



Client		Eurogreen Environmental Ltd				Project number				GL5358					
Sampling location		Nareth Barn Farm, Worthing BN12 6NZ				Sampling date				8 Aug 18					
Soil source or name of producer (if known)		Eurogreen Environmental Ltd				Sample reference				Batch 12					
Laboratory details		Concpt Life Sciences & Southern Testing Laboratories Ltd				Date sample received by Laboratory				14 Aug 18					
Parameter		Result		Multipurpose and specific purpose topsoils											
Potentially phytotoxic elements (by soil pH)	Soil pH <6.0				Soil pH 6.0 to 7.0				Soil pH >7.0						
Zinc- Zn (mg/kg dry solids) (Nitric acid extractable)		73		<200		n/a		<200		n/a		<300			
Copper- Cu (mg/kg dry solids) (Nitric acid extractable)		18		<100		n/a		<135		n/a		<200		Y	
Nickel- Ni (mg/kg dry solids) (Nitric acid extractable)		10		<60		n/a		<75		n/a		<110		Y	
Soil texture % m/m (Figure 1, BS3882:2015)															
Clay		18		10 to 35										Y	
Silt		24		0 to 65										Y	
Sand		54		30 to 85										Y	
Soil texture class (Figure 1, BS3882:2015)		Sandy Loam													
Maximum coarse fragment content % m/m															
>2 mm		5.3		30										Y	
>20 mm		<0.1		10										Y	
>50 mm		<0.1		0										Y	
Visible Contaminants % m/m (air dried soil)		<0.5		<0.5										Y	
... of which plastics		<0.25		<0.25										Y	
Sharps, number (air dried soil)		0		zero in 1 kg air dried soil										Y	
Electrical conductivity $\mu\text{S}\cdot\text{cm}^{-1}$		2100		<3300										Y	
Parameter		Result		Multipurpose topsoil		Specific purpose topsoil									
						Acidic		Calcareous		Low fertility		Low fertility acidic		Low fertility calcareous	
Organic content - Mass loss on ignition %															
Clay 5% to 20%		5.4		3 to 20		Y		3 to 30		Y		3 to 20		Y	
Clay 20% to 35%				5 to 20		n/a		5 to 30		n/a		5 to 20		n/a	
Carbonate % m/m		2.7		n/a		n/a		n/a		n/a		>1		Y	
Plant nutrient content															
Total nitrogen % m/m		0.19		>0.15		Y		>0.15		Y		>0.15		Y	
Extractable phosphate mg/L		26		16 to 140		Y		16 to 140		Y		≤ 20		N	
Extractable potassium mg/L		290		121 to 1,500		Y		121 to 1,500		Y		n/a		n/a	
Extractable magnesium mg/L		120		51 to 600		Y		51 to 600		Y		n/a		n/a	
Carbon:nitrogen ratio		17:1		<20:1		Y		<20:1		Y		<35:1		Y	
Soil pH		7.8		5.5 to 8.5		Y		3.5 to 5.5		N		7.5 to 9.0		Y	
Compliant				Multipurpose topsoil		Acidic		Calcareous		Low fertility		Low fertility acidic		Low fertility calcareous	
				Yes		No		Yes		No		No		No	

NOTES: 1. Attention is drawn to notes 2 – 5 in Table 1 of BS 3882:2015, and in particular to the requirement for topsoil not to contain concentrations of any chemical contaminants which would cause significant risk to human health and/or the environment, the assessment of which should be undertaken with consideration to the intended use of the recipient site and therefore any Site Specific Assessment Criteria (SSAC) or Generic Assessment Criteria (GAC) which may apply. 2. The results included above are representative of the sample received by the Laboratory. 3. Additional analytical certificates are appended.

Southern Testing Laboratories Limited, East Grinstead is registered under BS EN ISO 9001:2008 ref: FS29280

Date of this report

29-Aug-18

Concept Life Sciences

Certificate of Analysis

3 Crittall Drive
Springwood Industrial
Estate
Braintree
Essex
CM7 2RT

Report Number: 759490-1

Date of Report: 29-Aug-2018

Customer: Southern Testing Laboratories
Keeble House
Stuart Way
East Grinstead
West Sussex
RH19 4QA

Customer Contact: Mr Timon Greenwood

Customer Job Reference: GL5358

Customer Purchase Order: GL5358_1 Timon

Customer Site Reference: Materials Testing, Eurogreen
Environmental

Date Job Received at Concept: 14-Aug-2018

Date Analysis Started: 14-Aug-2018

Date Analysis Completed: 29-Aug-2018

The results reported relate to samples received in the laboratory and may not be representative of a whole batch.

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

This report should not be reproduced except in full without the written approval of the laboratory

Tests covered by this certificate were conducted in accordance with Concept Life Sciences SOPs

All results have been reviewed in accordance with Section 25 of the Concept Life Sciences, Analytical Services Quality Manual



Report checked
and authorised by :
Aislinn Arthey
Customer Service Advisor

Issued by :
Aislinn Arthey
Customer Service Advisor

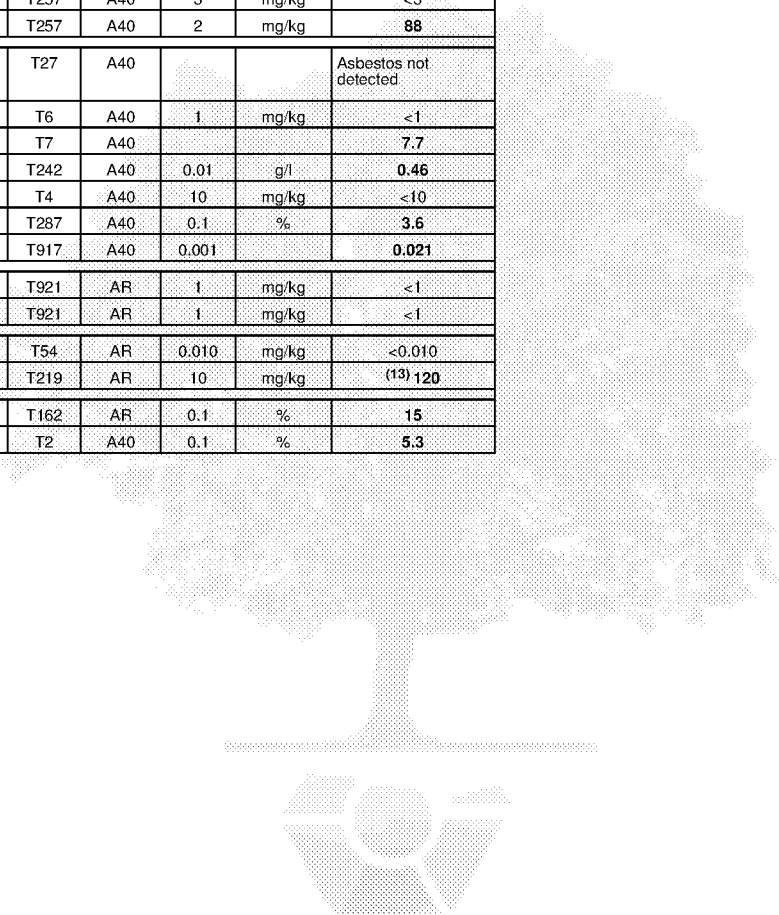
Customer Reference: GL5358

Soil	Analysed as Soil
Southern Testing Key Contamination Suite	

Concept Reference	759490 001
Customer Sample Reference	Batch 12
Date Sampled	08-AUG-2018
Matrix Class	Sandy Soil

Determinand	Method	Test Sample	LOD	Units	
Arsenic	T257	A40	2	mg/kg	9
Cadmium	T257	A40	0.1	mg/kg	0.2
Chromium	T257	A40	0.5	mg/kg	21
Copper	T257	A40	2	mg/kg	20
Lead	T257	A40	2	mg/kg	87
Mercury	T245	A40	1.0	mg/kg	<1.0
Nickel	T257	A40	0.5	mg/kg	15
Selenium	T257	A40	3	mg/kg	<3
Zinc	T257	A40	2	mg/kg	88

Asbestos ID	T27	A40			Asbestos not detected
Chromium VI	T6	A40	1	mg/kg	<1
pH	T7	A40			7.7
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	0.46
Sulphide	T4	A40	10	mg/kg	<10
Soil Organic Matter	T287	A40	0.1	%	3.6
Fraction Organic Carbon - F(oc)	T917	A40	0.001		0.021
Cyanide(Total)	T921	AR	1	mg/kg	<1
Phenols(Mono)	T921	AR	1	mg/kg	<1
TPH (C6-C10)	T54	AR	0.010	mg/kg	<0.010
TPH (C10-C40)	T219	AR	10	mg/kg	(13) 120
Moisture @105C	T162	AR	0.1	%	15
Retained on 2mm	T2	A40	0.1	%	5.3



Index to symbols used in 759490-1

Value	Description
A40	Assisted dried < 40C
AR	As Received
N.D.	Not Detected
13	Results have been blank corrected.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Asbestos subcontracted to REC Limited
Reported results on as received samples are corrected to a 105 degree centigrade dry weight basis
Retained on 2mm is removed before analysis

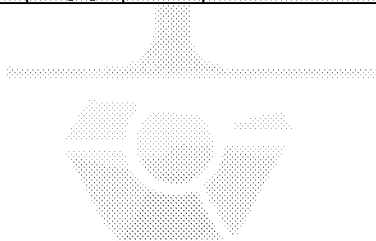
Method Index

Value	Description
T245	ICP/OES (Aqua Regia Extraction)
T6	ICP/OES
T873	Grav (4 Dec) (Dry 125 C)(Ign 440 C)
T267	GC/TCD (Dumas)
T27	PLM
T7	Probe
T956	Colorimetry (Sodium Hydrogen Carbonate Extract)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T271	Probe CaSO4
T274	Probe (BS 3882)
T312	ICP-OES (Nitric Acid Extraction)
T22	Titration
T921	Colorimetry (CF) (MCERT)
T2	Grav
T287	Calc TOC/0.58
T219	GC/FID (SE)
T1086	GC/MS (GSOP12A)
T26	Microscopy (Low Mag.)
T54	GC/MS (Headspace)
T161	Visual
T162	Grav (1 Dec) (105 C)
T272	ICP/OES (Ammonium Nitrate)
T4	Colorimetry
T85	Calc
T917	OX/IR (SE)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Copper	T312	A40	1	mg/kg	N	001
Nickel	T312	A40	1	mg/kg	N	001
Zinc	T312	A40	1	mg/kg	N	001
Mg (Extractable BS 3882)	T272	A40	10	mg/l	N	001
Phosphorous	T956	A40	10	mg/l	N	001
K (Extractable BS 3882)	T272	A40	10	mg/l	N	001
Carbon / Nitrogen ratio	T85	A40			N	001
Electrical Conductivity	T271	A40	10	µS/cm	N	001
LOI (OM) (125-440)C	T873	A40		%	N	001
Neutralising Value (expressed as CaCO3)	T22	A40	0.1	%	N	001
Nitrogen (Total)	T267	A40		%m/m	SN	001
pH (2.5:1 extract)	T274	A40			N	001
Retained on 2mm	T2	A40	0.1	%	N	001
Retained on 20mm	T2	A40	0.1	%	N	001
Retained on 50mm	T2	A40	0.1	%	N	001
Sand Content	T2	A40	1.0	%	SN	001

Determinand	Method	Test Sample	LOD	Units	Symbol	Concept References
Silt Content	T2	A40	1.0	%	SN	001
Clay Content	T2	A40	1.0	%	SN	001
Texture	T26	A40			N	001
Visible Contaminants	T161	AR	0.5	%	N	001
Visible Contaminants (Plastics)	T2	AR	0.25	%	N	001
Sharps	T2	AR		Number/kg	N	001
Arsenic	T257	A40	2	mg/kg	M	001
Cadmium	T257	A40	0.1	mg/kg	M	001
Chromium	T257	A40	0.5	mg/kg	M	001
Copper	T257	A40	2	mg/kg	M	001
Lead	T257	A40	2	mg/kg	M	001
Mercury	T245	A40	1.0	mg/kg	U	001
Nickel	T257	A40	0.5	mg/kg	M	001
Selenium	T257	A40	3	mg/kg	U	001
Zinc	T257	A40	2	mg/kg	M	001
Asbestos ID	T27	A40			SU	001
Chromium VI	T6	A40	1	mg/kg	N	001
pH	T7	A40			M	001
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	M	001
Sulphide	T4	A40	10	mg/kg	N	001
Soil Organic Matter	T287	A40	0.1	%	N	001
Fraction Organic Carbon - F(oc)	T917	A40	0.001		N	001
Cyanide(Total)	T921	AR	1	mg/kg	M	001
Phenols(Mono)	T921	AR	1	mg/kg	M	001
TPH (C6-C10)	T54	AR	0.010	mg/kg	N	001
TPH (C10-C40)	T219	AR	10	mg/kg	M	001
Moisture @105C	T162	AR	0.1	%	N	001
Acenaphthene	T1086	AR	0.1	mg/kg	M	001
Acenaphthylene	T1086	AR	0.1	mg/kg	M	001
Anthracene	T1086	AR	0.1	mg/kg	M	001
Benzo(a)Anthracene	T1086	AR	0.1	mg/kg	M	001
Benzo(a)Pyrene	T1086	AR	0.1	mg/kg	M	001
Benzo(b)fluoranthene	T1086	AR	0.1	mg/kg	M	001
Benzo(ghi)Perylene	T1086	AR	0.1	mg/kg	M	001
Benzo(k)fluoranthene	T1086	AR	0.1	mg/kg	N	001
Chrysene	T1086	AR	0.1	mg/kg	M	001
Dibenzo(ah)Anthracene	T1086	AR	0.1	mg/kg	M	001
Fluoranthene	T1086	AR	0.1	mg/kg	M	001
Fluorene	T1086	AR	0.1	mg/kg	M	001
Indeno(123-cd)Pyrene	T1086	AR	0.1	mg/kg	M	001
Naphthalene	T1086	AR	0.1	mg/kg	M	001
Phenanthrene	T1086	AR	0.1	mg/kg	M	001
Pyrene	T1086	AR	0.1	mg/kg	M	001
PAH(total)	T1086	AR	0.1	mg/kg	N	001



3.4 Topsoil and subsoil verification test results



2683



MCERTS
THE ENVIRONMENTAL LABORATORY LTD
PONSWOOD INDUSTRIAL ESTATE
ST LEONARDS ON SEA
EAST SUSSEX
TN38 0PY

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 0PY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-20586

Issue: 1

Date of Issue: 23/11/2018

Contact: Alistair Tyler

Customer Details: Ground Management Ltd
Robin Hill Farm
Clay Lane
Chichester
West Sussex
PO18 8AN

Quotation No: Q18-01348

Order No: G6366

Customer Reference: G6366

Date Received: 15/11/2018

Date Approved: 23/11/2018

Details: Kings Close, Yapton

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 18-20586

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
157394	GMP18 0.45 - 0.55	13/11/2018	15/11/2018	Silty loam	
157395	GMP19 0.00 - 0.20	13/11/2018	15/11/2018	Silty loam	
157396	GMP20 0.00 - 0.20	13/11/2018	15/11/2018	Silty loam	



Results Summary

Report No.: 18-20586

ELAB Reference:	157394	157395	157396
Customer Reference:			
Sample ID:			
Sample Type:	SOIL	SOIL	SOIL
Sample Location:	GMP18	GMP19	GMP20
Sample Depth (m):	0.45 - 0.55	0.00 - 0.20	0.00 - 0.20
Sampling Date:	13/11/2018	13/11/2018	13/11/2018

Determinand	Codes	Units	LOD			
Metals						
Arsenic	M	mg/kg	1	8.2	14.9	11.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	21.1	25.4	25.3
Chromium (III)	N	mg/kg	5	21.1	25.4	25.3
Copper	M	mg/kg	5	20.8	26.5	26.5
Lead	M	mg/kg	5	66.8	95.4	89.0
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	15.1	19.2	19.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	86.7	120	149
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Miscellaneous						
pH	M	pH units	0.1	7.9	8.1	10.0
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	0.2	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.3	0.7	< 0.1
Pyrene	M	mg/kg	0.1	0.3	0.7	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.2	0.4	< 0.1
Chrysene	M	mg/kg	0.1	0.2	0.5	< 0.1
Benzo (b) fluoranthene	M	mg/kg	0.1	0.3	0.6	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.3	0.5	< 0.1
Benzo (a) pyrene	M	mg/kg	0.1	0.2	0.5	< 0.1
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	0.2	0.4	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.2	0.3	< 0.1
Total PAH(16)	M	mg/kg	0.4	2.3	5.0	< 0.4
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0	2.3	9.6
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	4.5
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	2.3	14.1
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	< 1.0	2.9
>C16-C21 Aromatic	M	mg/kg	1	< 1.0	3.1	3.3
>C21-C35 Aromatic	M	mg/kg	1	5.2	10.6	36.0
>C35-C40 Aromatic	M	mg/kg	1	< 1.0	2.0	8.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	5.2	15.7	50.2
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	5.2	18.0	64.2

Tests marked N are not UKAS accredited.
The Environmental Laboratory Ltd. Reg. No. 3882193



Unit: A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary
Report No.: 18-20586

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
157394	0.45 - 0.55	GMP18	brown soil (clay) with stones, clinker, brick and twigs	No asbestos detected	n/l	n/l	n/l	n/l
157395	0.00 - 0.20	GMP19	brown soil (clay) with stones, clinker, brick and twigs	No asbestos detected	n/l	n/l	n/l	n/l
157396	0.00 - 0.20	GMP20	brown soil (clay) with stones, clinker and twigs	No asbestos detected	n/l	n/l	n/l	n/l

Method Summary

Report No.: 18-20586

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	19/11/2018	110	Colorimetry
pH	M	Air dried sample	20/11/2018	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	19/11/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	19/11/2018	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	22/11/2018	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	22/11/2018	181	GC-MS
TPH CWG soil by gc-gc	M	As submitted sample	16/11/2018	214	
Asbestos identification	U	Air dried sample	19/11/2018	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 18-20586

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-20751

Issue: 1

Date of Issue: 30/11/2018

Contact: Alistair Tyler

Customer Details: Ground Management Ltd
Robin Hill Farm
Clay Lane
Chichester
West Sussex
PO18 8AN

Quotation No: Q18-01348

Order No: G6366

Customer Reference: G6366

Date Received: 27/11/2018

Date Approved: 30/11/2018

Details: Kings Close, Yapton

Approved by:

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 18-20751

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
158668	GMP17A 0.00 - 0.20	24/11/2018	27/11/2018	Silty loam	
158669	GMP17B 0.40 - 0.60	24/11/2018	27/11/2018	Silty loam	

Results Summary

Report No.: 18-20751

ELAB Reference	158668	158669
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	GMP17A	GMP17B
Sample Depth (m)	0.00 - 0.20	0.40 - 0.60
Sampling Date	24/11/2018	24/11/2018

Determinand	Codes	Units	LOD		
Metals					
Arsenic	M	mg/kg	1	10.8	11.1
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	28.4	29.0
Chromium (III)	N	mg/kg	5	28.4	29.0
Copper	M	mg/kg	5	36.4	30.0
Lead	M	mg/kg	5	82.0	45.6
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	20.0	19.7
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	125	69.1
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	8.0	8.3
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	0.2
Acenaphthylene	M	mg/kg	0.1	0.1	1.2
Acenaphthene	M	mg/kg	0.1	0.1	0.4
Fluorene	M	mg/kg	0.1	< 0.1	0.4
Phenanthrene	M	mg/kg	0.1	1.6	5.0
Anthracene	M	mg/kg	0.1	0.4	2.0
Fluoranthene	M	mg/kg	0.1	3.6	17.1
Pyrene	M	mg/kg	0.1	3.2	16.3
Benzo(a)anthracene	M	mg/kg	0.1	2.1	11.8
Chrysene	M	mg/kg	0.1	2.3	11.9
Benzo(b)fluoranthene	M	mg/kg	0.1	2.8	14.9
Benzo(k)fluoranthene	M	mg/kg	0.1	2.5	14.2
Benzo(a)pyrene	M	mg/kg	0.1	2.5	16.4
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	2.3	13.4
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.5	3.0
Benzo(g,h,i)perylene	M	mg/kg	0.1	2.4	15.0
Total PAH(16)	M	mg/kg	0.4	26.4	143
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	1.7	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	1.7	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	1.4	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	6.8	4.6
>C35-C40 Aromatic	M	mg/kg	1	< 1.0	1.3
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	8.1	5.9
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	9.8	5.9



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Results Summary

Report No.: 18-20751

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
158668	0.00 - 0.20	GMP17A	Brown soil, stones, plant material	No asbestos detected	n/t	n/t	n/t	n/t
158669	0.40 - 0.60	GMP17B	Brown soil, stones, glass, clinker	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 18-20751

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	28/11/2018	110	Colorimetry
pH	M	Air dried sample	29/11/2018	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	28/11/2018	118	ICPMS
PAH (GC-FID)	M	As submitted sample	28/11/2018	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	29/11/2018	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	29/11/2018	181	GC-MS
TPH CWG soil by gc-gc	M	As submitted sample	28/11/2018	214	
Asbestos identification	U	Air dried sample	28/11/2018	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 18-20751

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 18-20915

Issue: 1

Date of Issue: 11/12/2018

Contact: Alistair Tyler

Customer Details: Ground Management Ltd
Robin Hill Farm
Clay Lane
Chichester
West Sussex
PO18 8AN

Quotation No: Q16-00620

Order No: G6308

Customer Reference: G6308

Date Received: 07/12/2018

Date Approved: 11/12/2018

Details: Kings Close, Yapton

Approved by:

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Sample Summary

Report No.: 18-20915

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
159855	GMP-17-C1 0.00 - 0.20	04/12/2018	07/12/2018	Silty loam & Stones	
159856	GMP-17-C2 0.30 - 0.40	04/12/2018	07/12/2018	Silty loam	
159857	GMP-17-C3 0.50 - 0.60	04/12/2018	07/12/2018	Silty loam	
159858	GMP-17-D1 0.00 - 0.20	04/12/2018	07/12/2018	Silty loam	
159859	GMP-17-D2 0.30 - 0.40	04/12/2018	07/12/2018	Silty loam	
159860	GMP-17-D3 0.50 - 0.60	04/12/2018	07/12/2018	Silty loam	
159861	GMP-17-E1 0.00 - 0.20	04/12/2018	07/12/2018	Silty loam	
159862	GMP-17-E2 0.30 - 0.40	04/12/2018	07/12/2018	Silty loam	
159863	GMP-17-E3 0.50 - 0.60	04/12/2018	07/12/2018	Sandy silty loam	
159864	GMP-17-F1 0.00 - 0.20	04/12/2018	07/12/2018		
159865	GMP-17-F2 0.30 - 0.40	04/12/2018	07/12/2018		
159866	GMP-17-F3 0.50 - 0.60	04/12/2018	07/12/2018		
159867	GMP-17-G1 0.00 - 0.20	04/12/2018	07/12/2018		
159868	GMP-17-G2 0.30 - 0.40	04/12/2018	07/12/2018		
159869	GMP-17-G3 0.50 - 0.60	04/12/2018	07/12/2018		
159870	GMP-17-G4 0.60 - 0.70	04/12/2018	07/12/2018		
159871	GMP-18-A1 0.00 - 0.20	05/12/2018	07/12/2018	Silty loam	
159872	GMP-18-A2 0.30 - 0.40	05/12/2018	07/12/2018	Silty loam	
159873	GMP-18-A3 0.55 - 0.65	05/12/2018	07/12/2018	Silty loam	
159874	GMP-18-B1 0.00 - 0.20	05/12/2018	07/12/2018		
159875	GMP-18-B2 0.35 - 0.45	05/12/2018	07/12/2018		
159876	GMP-18-B3 0.55 - 0.70	05/12/2018	07/12/2018		
159877	GMP-19-A2 0.00 - 0.20	05/12/2018	07/12/2018		
159878	GMP-19-A2 0.30 - 0.40	05/12/2018	07/12/2018		
159879	GMP-19-A3 0.55 - 0.65	05/12/2018	07/12/2018		
159880	GMP-19-B1 0.00 - 0.20	05/12/2018	07/12/2018		
159881	GMP-19-B2 0.30 - 0.40	05/12/2018	07/12/2018		



Results Summary

Report No.: 18-20915

2683

ELAB Reference	159855	159856	159857	159858	159859	159860
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	GMP-17-C1	GMP-17-C2	GMP-17-C3	GMP-17-D1	GMP-17-D2	GMP-17-D3
Sample Depth (m)	0.00 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.20	0.30 - 0.40	0.50 - 0.60
Sampling Date	04/12/2018	04/12/2018	04/12/2018	04/12/2018	04/12/2018	04/12/2018
Determinand	Codes	Units	LOD			
Miscellaneous						
Soil Organic Matter	U	%	0.1	3.4	n/t	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	0.3	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	0.3	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	2.7	0.4	< 0.1
Anthracene	M	mg/kg	0.1	1.0	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	4.6	0.9	< 0.1
Pyrene	M	mg/kg	0.1	3.6	0.8	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	2.3	0.5	< 0.1
Chrysene	M	mg/kg	0.1	2.2	0.6	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	1.4	0.5	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	1.7	0.6	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	1.7	0.5	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	1.1	0.4	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.3	0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.9	0.4	< 0.1
Total PAH(16)	M	mg/kg	0.4	24.4	6.1	< 0.4



Results Summary

Report No.: 18-20915

2683

ELAB Reference	159861	159862	159863	159871	159872	159873
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	GMP-17-E1	GMP-17-E2	GMP-17-E3	GMP-18-A1	GMP-18-A2	GMP-18-A3
Sample Depth (m)	0.00 - 0.20	0.30 - 0.40	0.50 - 0.60	0.00 - 0.20	0.30 - 0.40	0.55 - 0.65
Sampling Date	04/12/2018	04/12/2018	04/12/2018	05/12/2018	05/12/2018	05/12/2018
Determinand	Codes	Units	LOD			
Miscellaneous						
Soil Organic Matter	U	%	0.1	3.7	n/t	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	0.2
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	0.5
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	0.2
Phenanthrene	M	mg/kg	0.1	0.4	0.2	1.0
Anthracene	M	mg/kg	0.1	0.1	< 0.1	0.4
Fluoranthene	M	mg/kg	0.1	1.2	0.9	2.8
Pyrene	M	mg/kg	0.1	1.1	0.8	2.7
Benzo(a)anthracene	M	mg/kg	0.1	0.6	0.4	1.7
Chrysene	M	mg/kg	0.1	0.7	0.5	2.0
Benzo(b)fluoranthene	M	mg/kg	0.1	0.7	0.5	1.5
Benzo(k)fluoranthene	M	mg/kg	0.1	0.7	0.5	2.0
Benzo(a)pyrene	M	mg/kg	0.1	0.7	0.5	1.5
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.5	0.3	1.2
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1	< 0.1	0.3
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.5	0.3	0.6
Total PAH(16)	M	mg/kg	0.4	7.5	5.0	18.5

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Method Summary

Report No.: 18-20915

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
PAH (GC-FID)	M	As submitted sample	10/12/2018	133	GC-FID
Soil organic matter	U	Air dried sample	10/12/2018	BS1377:P3	Titrimetry



Report Information

Report No.: 18-20915

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-21741

Issue: 1

Date of Issue: 15/02/2019

Contact: Alistair Tyler

Customer Details: Ground Management Ltd
Robin Hill Farm
Clay Lane
Chichester
West Sussex
PO18 8AN

Quotation No: Q18-01348

Order No: G6308

Customer Reference: G6308

Date Received: 12/02/2019

Date Approved: 15/02/2019

Details: Kings Close, Yapton

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 19-21741

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
165166	GMP-9 0.10	08/02/2019	12/02/2019	Sandy silty loam	
165167	GMP-11 0.10	08/02/2019	12/02/2019	Sandy silty loam	
165168	GMP-12 0.10	08/02/2019	12/02/2019	Silty loam	
165169	GMP-15 0.10	08/02/2019	12/02/2019	Sandy silty loam	

Results Summary

Report No.: 19-21741

ELAB Reference	165166	165167	165168	165169
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	GMP-9	GMP-11	GMP-12	GMP-15
Sample Depth (m)	0.10	0.10	0.10	0.10
Sampling Date	08/02/2019	08/02/2019	08/02/2019	08/02/2019

Determinand	Codes	Units	LOD				
Metals							
Arsenic	M	mg/kg	1	10.5	10.7	13.1	12.9
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	0.5
Chromium	M	mg/kg	5	21.8	24.4	28.7	29.5
Chromium (III)	N	mg/kg	5	21.8	24.4	28.7	29.5
Copper	M	mg/kg	5	34.4	36.1	38.6	34.0
Lead	M	mg/kg	5	53.5	62.2	154	112
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	20.2	18.9	21.4	20.6
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	107	112	147	146
Inorganics							
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous							
pH	M	pH units	0.1	8.1	8.2	8.0	8.3
Soil Organic Matter	U	%	0.1	9.3	8.4	4.1	3.9
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	0.2
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.8	< 0.1	0.7	0.4
Pyrene	M	mg/kg	0.1	0.2	< 0.1	0.6	0.3
Benzo(a)anthracene	M	mg/kg	0.1	0.2	< 0.1	0.5	0.2
Chrysene	M	mg/kg	0.1	0.2	< 0.1	0.4	0.2
Benzo(b)fluoranthene	M	mg/kg	0.1	0.3	< 0.1	0.5	0.2
Benzo(k)fluoranthene	M	mg/kg	0.1	0.2	0.1	0.5	0.2
Benzo(a)pyrene	M	mg/kg	0.1	0.1	< 0.1	0.5	0.2
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.3	< 0.1	0.4	0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.2	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	0.4	0.1	0.3	0.1
Total PAH(16)	M	mg/kg	0.4	3.1	0.9	4.9	2.2
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	1.1	1.3	< 1.0	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	1.1	1.3	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	3.6	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	53.0	15.3	8.5	6.1
>C35-C40 Aromatic	M	mg/kg	1	7.8	1.4	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	64.4	16.7	8.5	6.1
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	65.5	18.0	8.5	6.1



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Results Summary

Report No.: 19-21741

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
165166	0.10	GMP-9	Brown sandy soil	No asbestos detected	n/t	n/t	n/t	n/t
165167	0.10	GMP-11	Brown sandy soil	No asbestos detected	n/t	n/t	n/t	n/t
165168	0.10	GMP-12	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
165169	0.10	GMP-15	Brown sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 19-21741

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	13/02/2019	110	Colorimetry
pH	M	Air dried sample	14/02/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	13/02/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	13/02/2019	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	13/02/2019	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	13/02/2019	181	GC-MS
TPH CWG soil by gc-gc	M	As submitted sample	13/02/2019	214	
Soil organic matter	U	Air dried sample	14/02/2019	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	14/02/2019	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 19-21741

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-22094

Issue: 1

Date of Issue: 11/03/2019

Contact: Alistair Tyler

Customer Details: Ground Management Ltd
Robin Hill Farm
Clay Lane
Chichester
West Sussex
PO18 8AN

Quotation No: Q18-01348

Order No: G6308

Customer Reference: G6308

Date Received: 06/03/2019

Date Approved: 11/03/2019

Details: Kings Close, Yapton

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 19-22094

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
167257	SP 5-8 (1)	04/03/2019	06/03/2019	Silty loam	
167258	SP 5-8 (2)	04/03/2019	06/03/2019	Silty loam	

Results Summary

Report No.: 19-22094

ELAB Reference	167257	167258
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	SP 5-8 (1)	SP 5-8 (2)
Sample Depth (m)		
Sampling Date	04/03/2019	04/03/2019

Determinand	Codes	Units	LOD		
Metals					
Arsenic	M	mg/kg	1	11.6	11.7
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	32.0	31.3
Chromium (III)	N	mg/kg	5	32.0	31.3
Copper	M	mg/kg	5	17.6	33.7
Lead	M	mg/kg	5	35.2	155
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	19.3	24.0
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	57.7	113
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	7.7	8.2
Soil Organic Matter	U	%	0.1	1.5	0.9
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.1	0.3
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.2
Pyrene	M	mg/kg	0.1	0.1	0.2
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	0.3
Chrysene	M	mg/kg	0.1	0.1	0.4
Benzo(b)fluoranthene	M	mg/kg	0.1	0.1	0.4
Benzo(k)fluoranthene	M	mg/kg	0.1	0.2	0.5
Benzo(a)pyrene	M	mg/kg	0.1	0.1	0.4
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.1	0.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	0.1	0.2
Total PAH(16)	M	mg/kg	0.4	1.4	3.3
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	< 1.0	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	7.9	2.8
>C35-C40 Aromatic	M	mg/kg	1	1.1	< 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	9.1	2.8
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	9.1	2.8



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Results Summary
Report No.: 19-22094

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
167257		SP 5-8 (1)	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t
167258		SP 5-8 (2)	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 19-22094

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	07/03/2019	110	Colorimetry
pH	M	Air dried sample	08/03/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	07/03/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	07/03/2019	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	08/03/2019	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	08/03/2019	181	GC-MS
TPH CWG soil by gc-gc	M	As submitted sample	07/03/2019	214	
Soil organic matter	U	Air dried sample	07/03/2019	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	07/03/2019	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 19-22094

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2
Windmill Road
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St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-22290

Issue: 1

Date of Issue: 22/03/2019

Contact: Alistair Tyler

Customer Details: Ground Management Ltd
Robin Hill Farm
Clay Lane
Chichester
West Sussex PO18 8AN

Quotation No: Q18-01348

Order No: G6308

Customer Reference: G6308

Date Received: 19/03/2019

Date Approved: 22/03/2019

Details: Kings Close, Yapton

Approved by:

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

Report No.: 19-22290, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
168594	GMP-8 0.30 - 0.40	15/03/2019	19/03/2019	Silty loam	
168595	GMP-7 0.00 - 0.20	15/03/2019	19/03/2019	Silty loam	
168596	GMP-6 0.00 - 0.20	15/03/2019	19/03/2019	Silty loam	
168597	GMP-3 0.00 - 0.20	15/03/2019	19/03/2019	Silty loam	
168598	GMP-TS1 0.00 - 0.20	15/03/2019	19/03/2019	Sandy silty loam	

Results Summary

Report No.: 19-22290, issue number 1

ELAB Reference				168594	168595	168596	168597	168598
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				GMP-8	GMP-7	GMP-6	GMP-3	GMP-TS1
Sample Depth (m)				0.30 - 0.40	0.00 - 0.20	0.00 - 0.20	0.00 - 0.20	0.00 - 0.20
Sampling Date				15/03/2019	15/03/2019	15/03/2019	15/03/2019	15/03/2019
Determinand	Codes	Units	LOD					
Metals								
Arsenic	M	mg/kg	1	12.0	11.3	6.4	12.7	18.7
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	42.4	39.3	16.2	31.3	31.0
Chromium (III)	N	mg/kg	5	42.4	39.3	16.2	31.3	31.0
Copper	M	mg/kg	5	23.7	30.4	16.9	37.0	21.1
Lead	M	mg/kg	5	44.6	69.2	50.2	117	79.0
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	30.5	29.7	11.3	21.3	17.2
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	70.4	93.1	61.0	130	98.4
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	8.5	8.2	8.6	8.4	8.4
Soil Organic Matter	U	%	0.1	0.4	0.7	3.3	4.4	1.7
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	0.3	0.4
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.3	0.4	1.0	1.1
Pyrene	M	mg/kg	0.1	< 0.1	0.3	0.3	0.9	0.9
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	0.3	0.2	0.6	0.5
Chrysene	M	mg/kg	0.1	< 0.1	0.4	0.2	0.6	0.7
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	0.4	0.2	0.6	0.6
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	0.5	0.3	0.8	0.7
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	0.4	0.2	0.6	0.6
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	0.3	0.2	0.4	0.4
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	0.3	0.2	0.5	0.3
Total PAH(16)	M	mg/kg	0.4	< 0.4	3.6	2.4	6.7	6.7
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	1.3	1.1	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	< 1.0	1.3	1.1	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	1.4	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	1.8	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	< 1.0	1.4	12.0	15.5	5.2
>C35-C40 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0	1.3	< 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	1.4	12.0	19.9	5.2
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	1.4	13.2	21.1	5.2

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



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Results Summary
Report No.: 19-22290, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
168594	0.30 - 0.40	GMP-8	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
168595	0.00 - 0.20	GMP-7	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
168596	0.00 - 0.20	GMP-6	Brown soil, stones, plant-material	No asbestos detected	n/t	n/t	n/t	n/t
168597	0.00 - 0.20	GMP-3	Brown soil, stones, plant-material	No asbestos detected	n/t	n/t	n/t	n/t
168598	0.00 - 0.20	GMP-TS1	Brown soil, stones, plant-material	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 19-22290, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	20/03/2019	110	Colorimetry
pH	M	Air dried sample	21/03/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	20/03/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	20/03/2019	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	21/03/2019	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	21/03/2019	181	GC-MS
TPH CWG soil by gc-gc	M	As submitted sample	20/03/2019	214	
Soil organic matter	U	Air dried sample	22/03/2019	BS1377:P3	Titrimetry
Asbestos identification	U	Air dried sample	20/03/2019	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 19-22290, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

3.5 Selected photographs



View south showing subsoil Plots 2 to 4 and geotextile marker Plots 17 to 20



View south showing geotextile marker and subsoil Plots 12 to 16 (far right)



View south showing further subsoil Plots 12 to 16.



View east across Plot 20 showing topsoil placement to lawn (right)



View south across Plot 20 showing removal of piling mat and extension of geotextile marker layer



View south across Plot 16 showing sub soil placement



View northeast across Plots 12 to 16 showing subsoil placement



View south showing subsoil to Plots 17 to 20



View south showing stockpile (of material for disposal) on Plot 17



View south showing Plots 17 to 19 after removal of stockpiled material



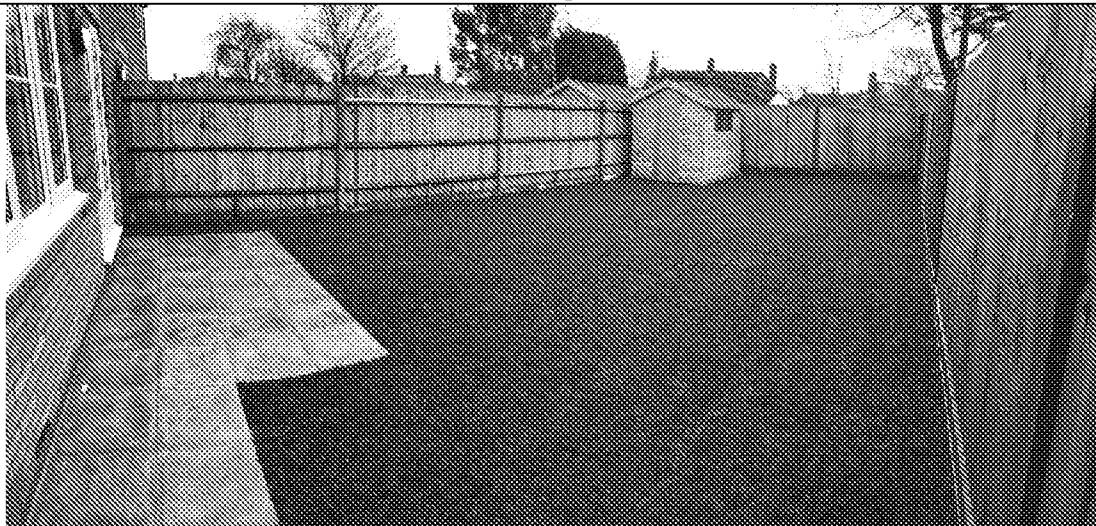
Topsoil to Plot 19



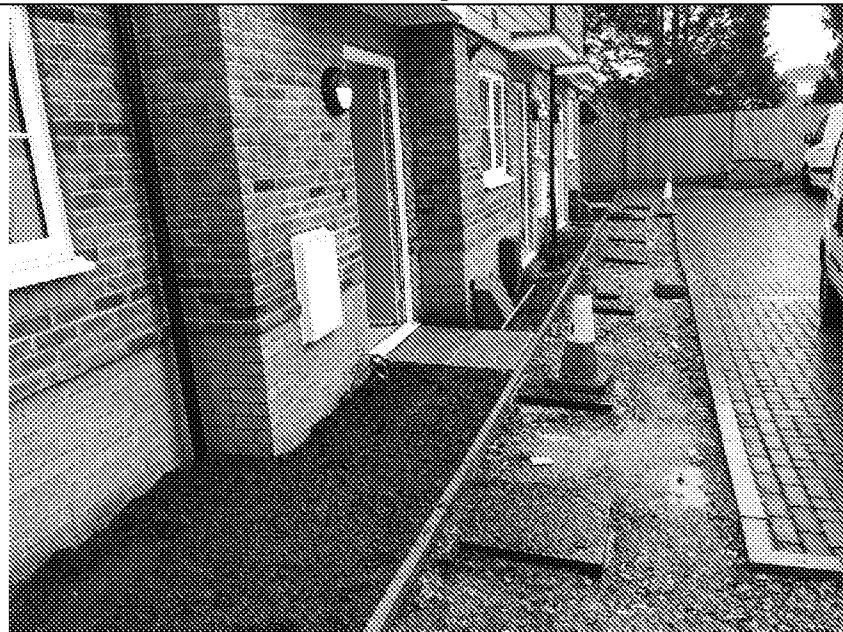
Topsoil to Plot 20 (Front)



View north across garden of Plot 15



View south across garden of Plot 12



View west across soft landscaping in front of Plots 12 to 16.



View north east across gardens of Plots 9 to 11



View south along excavation for soakaway Plots 5 to 8



View north along excavation for soakaway Plots 5 to 8



Stockpiled natural soils from excavation for soakaway Plots 5 to 8



View north across garden of Plot 3



View south showing subsoil placement across Plots 5 to 8



View South across Plots 5 to 8 during subsoil placement



View South across Plots 5 to 8 during topsoil placement

Appendix 4: Criteria for imported soil

APPENDIX 1**CRITERIA FOR IMPORTED SOILS**

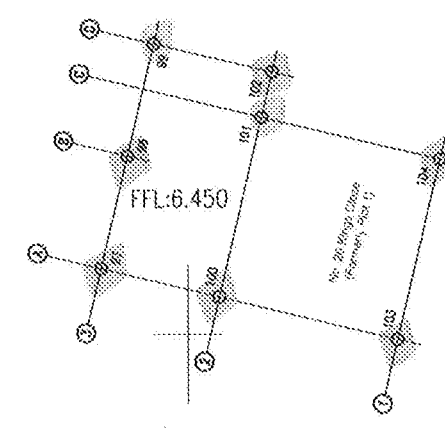
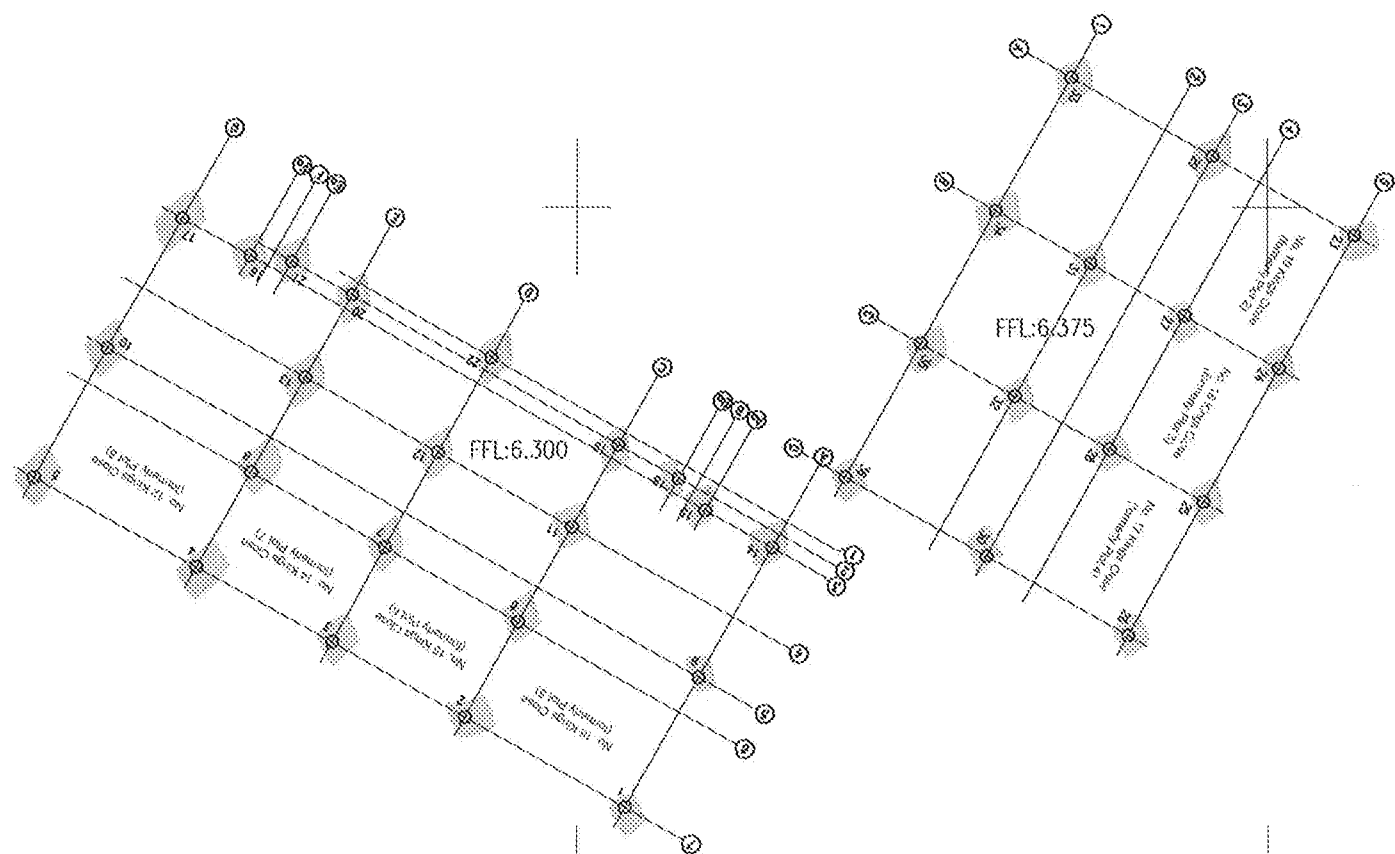
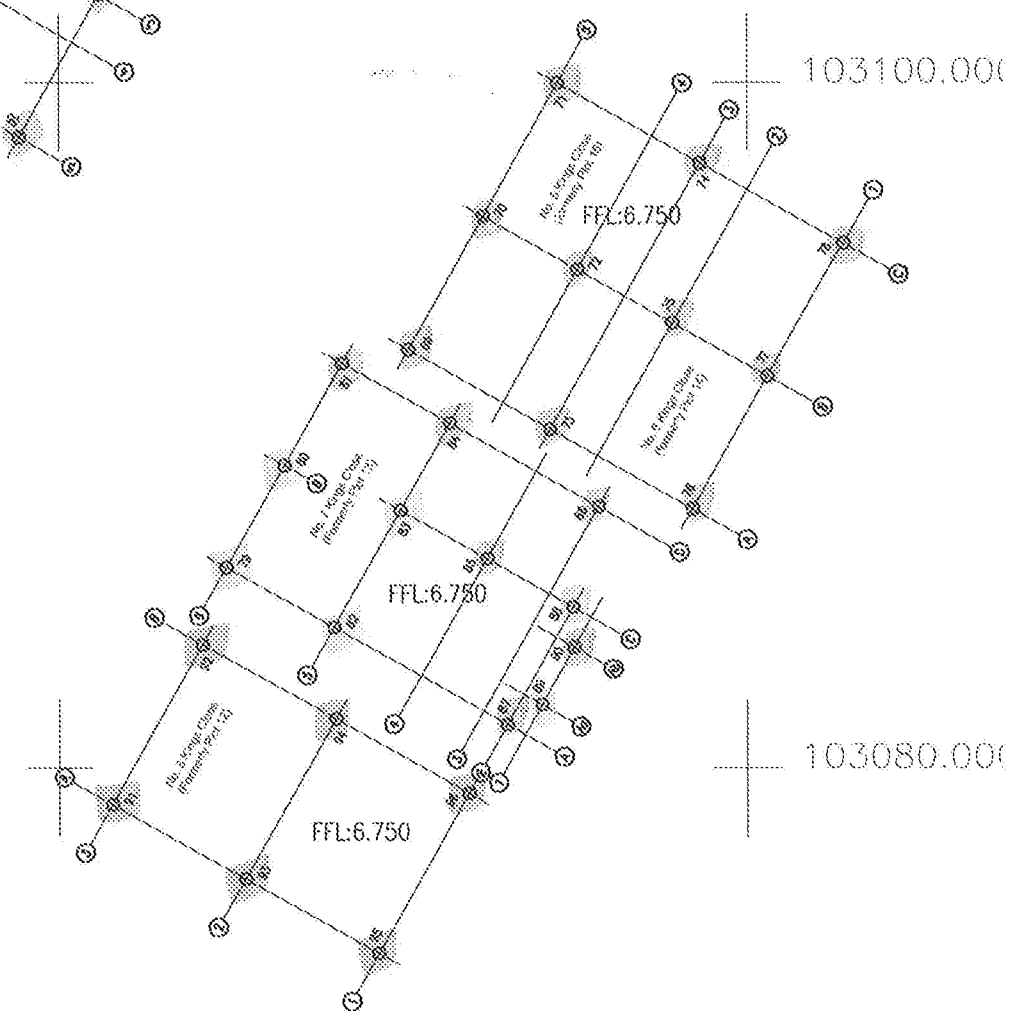
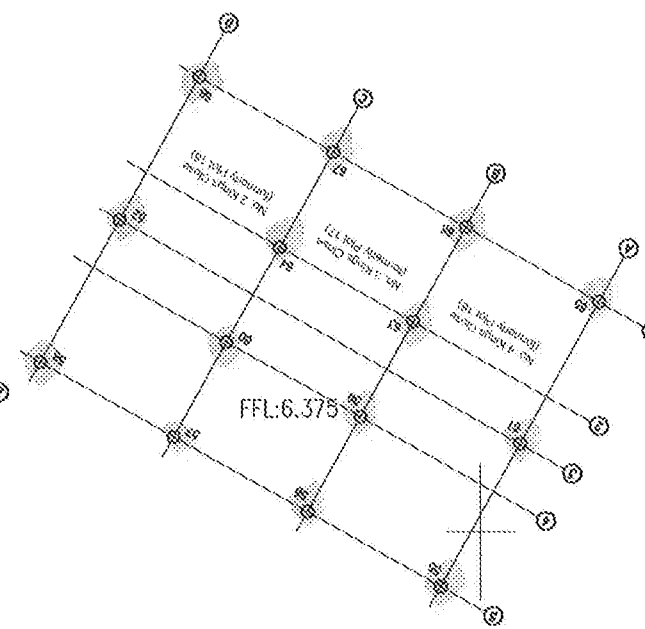
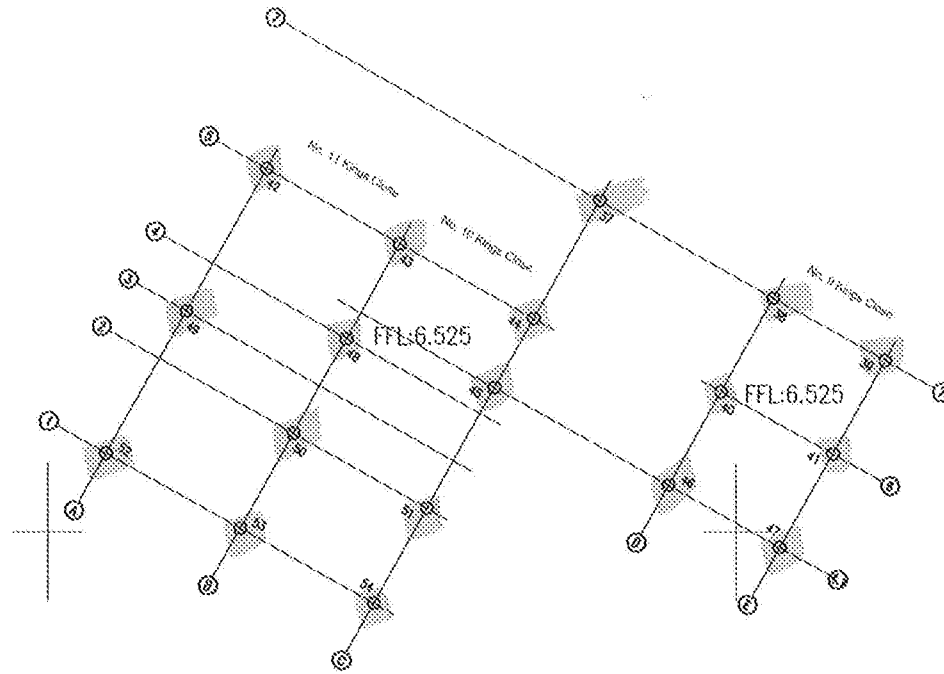
Potential contaminant	Criteria (mg/kg)
Arsenic	37
Cadmium	26
Chromium (III)	910
Copper	2400
Lead	210
Mercury (inorganic)	40
Nickel	130
Selenium	250
Zinc	3700
Acenaphthylene	420
Acenaphthene	510
Anthracene	5400
Benzo(a)anthracene	11
Benzo(a)pyrene	2.7
Benzo(b)fluoranthene	3.3
Benzo(ghi)perylene	340
Benzo(k)fluoranthene	93
Chrysene	22
Dibenzo(ah)anthracene	0.28
Fluorene	400
Fluoranthene	560
Ideno(1,2,3-cd)pyrene	36
Naphthalene	5.6
Phenanthrene	220
Pyrene	1200
TPH Aliphatic C5-C6	78
TPH Aliphatic C6-C8	230
TPH Aliphatic C8-C10	65
TPH Aliphatic C10-C12	330
TPH Aliphatic C12-C16	2400
TPH Aliphatic C16-C35	10000
TPH Aliphatic C35-C44	10000
TPH Aromatic C5-C7	140
TPH Aromatic C7-C8	290
TPH Aromatic C8-C10	83
TPH Aromatic C10-C12	180
TPH Aromatic C12-C16	330
TPH Aromatic C16-C21	540
TPH Aromatic C21-C35	1500
TPH Aromatic C35-C44	1500
pH	5 - 8

Values generally based on S4UL criteria for 2.5% SOM and a sandy loam soil.

S4UL criteria copyright Land Quality Management Ltd reproduced with permission; publication number S4UL3652. All rights reserved.

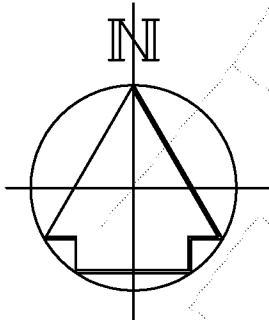
Appendix 5: Piling details

30/07
01/08
03/08



**KINGS CLOSE YAPTON
PILE LAYOUT
CFA PILING BY FRANKI
FOUNDATIONS
All 350mm dia.
Lengths Vary 8.5 to 14.0m**

Appendix 6: Details of mains water supply network



PRELIMINARY

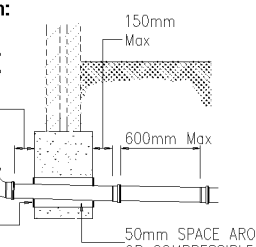
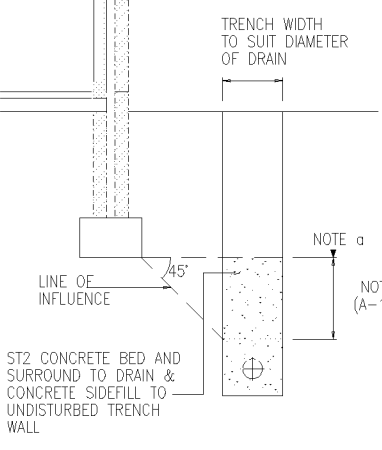
OUTSTANDING DESIGN ISSUES:

- Highway Works Agreement
- Precise RWP Locations
- Precise Foul Outlet Locations
- Foundation, Pile & Ground Beam Details (by others)

WARNINGS:

- Contaminated Ground:**
Remediation of contaminated soils may be required in the vicinity of soakaway structures that will concentrate flows into the ground. See Ground Management Report GR530.
- Foul Drains / Sewers:**
Due to the close proximity of permeable pavements to foul drain runs on the site, it is not anticipated that Southern Water will adopt any of the new foul drainage system apart from manhole F3.

Notes

- This drawing to be read in conjunction with all relevant Architects and Engineers drawings and specifications.
- Dimensions are in millimetres unless noted otherwise.
- Original topographic survey undertaken by Kings Surveyors.
For full topographic survey information see Kings drawing No. 96926.0001.
All levels based on O.S. Datum by GPS.
- Existing levels shown thus: $\text{---} \cdot \text{---} \cdot \text{---}$
- Before excavation commences, the Contractor shall ascertain the depths, sizes and locations of all services to be crossed. Any conflicts in levels between new works and existing services shall be notified to the Engineer.
- All drainage shall be in accordance with Building Regulations 2002: Part H & W.S.A Sewers for Adoption 7th edition.
- Details of existing sewers & drains shall be confirmed by the contractor on site prior to the commencement of works.
- Sewers of different diameters shall be laid soffit to soffit in manholes, unless backdrops are detailed.
- Private drains passing through walls and footings are to be sleeved and a 600mm length of rocker pipe shall be laid on each side of the wall or footing. Runs under building shall have a type 'S' bed and surround, unless depth below underside of slab is less than 300mm where a 150mm bed and surround of concrete is to be used. Where pipes pass beneath foundations 600mm length rocker pipes shall be laid on each side. Below is shown a typical detail of a pipe sleeved through a foundation:

- Manhole (M.H.) covers and inspection chamber (I.C.) shall be adjusted to suit final surface levels.
- Where trench foundation levels lie above original levels, levels shall be made up with either well compacted layers of D.O.T type 1 or mix ST2 concrete.
- For positions of SVP's stub stacks and rainwater pipes see detailed Architects layouts.
- Minimum gradients for pipes where no gradient is shown shall be 1:80.
- Dimensions of M.H. on private drains and sewers to be in accordance with requirements of the Building Regulations.
- Drainage trenches lower than foundations:
a) Where drainage trench is within 1.0 distance of a building the trench is to be filled with concrete mix ST 2 up to the level of the foundation, in accordance with Building Regulation 2002: Part H, diagram 8.
b) Where drainage trench is distance 'A' from footing and the depth of trench below foundation level is greater than 'A' the lower trench shall be filled with concrete mix ST 2 such that the top level of concrete infill is no less than ('A' - 150mm) below foundation level. Notes a) and b) are represented diagrammatically below:


- Pipe materials shall be:
a) For external private drain runs:
i) Clay pipes, extra strength or super strength in accordance with BS EN 295: 1991
ii) UPVC pipes in accordance with BS 4660 & BS 5481: 1989 (flexible pipes)
iii) Ductile iron pipe work in accordance with BS EN 588, as Stanton Integral with high performance joints or equivalent.
b) For adoptable sewers/highway drains, see longitudinal sections.
- Definition of 'rigid' and 'flexible' pipes shall be as Building Regulations Part H, table 7.
- Flexible pipes - Where private flexible pipes have more than 900mm cover under vehicular areas and more than 600mm cover under gardens, bedding and backfill shall be Type S as shown on drawing STD.01.85.
For special protection where pipes are laid with less cover see notes below.
a) Where private flexible pipes have less than 900mm cover under vehicular areas, a reinforced concrete bridging slab shall be used (as Type 'Y' drawing STD.01.85) Reference Building Regulations 2002: Part H.
b) Where private flexible pipes have less than 600mm cover under gardens, concrete paving slabs laid as bridging slab shall be used (as Type 'X' drawing STD.01.85.) Reference Building Regulations 2002: Part H.
- Rigid pipes - Bedding and backfill shall be Type 'S' as shown on drawing STD.01.85, except on lengths where special protection is required (see notes below).
a) Where $\varnothing$ 100mm private rigid pipes have less than 400mm cover under vehicular areas, a Type 'Z' concrete surround shall be used (see drawing STD.01.85) Reference Building Regulations 2002: Part H.
b) Where $\varnothing$ 100mm private rigid pipes have less than 300mm cover under garden areas, a Type 'Z' concrete surround shall be used (see drawing STD.01.85) Reference Building Regulations 2002: Part H.
c) Where $\varnothing$ 150mm private rigid pipes have less than 600mm cover under any areas, a Type 'Z' concrete surround shall be used (see drawing STD.01.85) Reference Building Regulations 2002: Part H.
- Private storm and foul drainage connections shall be detailed by the Architect.
- All external rainwater down pipes shall discharge through a proprietary bottle gully as shown on drawing STD.01.12.
- Trenches below existing carriageways and parking areas shall be reinstated with D.O.E Type 1 material in accordance with standard detail STD.02.05.
- All road gullies shall be trapped in accordance with detail STD.01.05 Type 1T.
- All utility covers & frames within the extent of the works shall be adjusted as necessary. The Contractor shall ensure that all services within vehicular areas have appropriate grade covers & frames as shown below:
Vehicular areas: D400 Pedestrian areas: B125

C3	CONSTRUCTION ISSUE, PLOT NUMBERS UPDATED.	-	PF-11-06-18
C2	WORKS IN AREA TO NORTH OF KINGSMEAD OMITTED.	-	PF-21-05-18
C1	CONSTRUCTION ISSUE, FOUL DRAINS LOWERED TO PASS UNDER PRECAST GROUND BEAMS.	-	PF-17-05-18
P5	SOAKAWAYS RESIZED, HYDRAULIC BREAK ON WEST BOUNDARY ADDED.	-	PF-08-05-18
P4	SPEED TABLE ADDED, PERMANENTLY ADJACENT NORTH OF KINGSMEAD.	-	PF-30-04-18
P3	ADDITIONAL EXTERNAL LEVELS SHOWN.	-	PF-23-04-18
P2	SOAKAWAYS MADE SHALLOWER & WIDER.	-	PF-05-05-18

REV	DESCRIPTION	CHECKED	DATE
-----	-------------	---------	------

Archibald Shaw

Consulting Civil & Structural Engineers
One Little London Chichester West Sussex PO19 1PP
Telephone: 01243 798471 Facsimile: 01243 779346
mail@archibaldshaw.co.uk www.archibaldshaw.co.uk

CLIENT
Plotlife

PROJECT
Housing Development
Kings Close, Yapton
General Arrangement showing Drainage

DRAWN BY PF	CHECKED BY VC	DESIGNED BY PF
SCALE @ A1 1:200	@DATE Jan. 2018	STATUS Construction
JOB NO. 28854	DRAWING NO. 101	REVISION C3

FOUL MANHOLE SCHEDULE

M.H. REF.	INVERT LEVEL LOWEST PIPE	COVER LEVEL	CHAMBER SIZE INTERNAL DIMS	COVER SIZE CLEAR OPENING	COVER TYPE	M.H. TYPE	COMMENT / DRG.
F1	3.370	6.100	EXISTING MH	EXISTING	-	-	
F2	3.750	6.480	EXISTING MH	EXISTING	-	-	
F3*	4.080	6.460	Ø1200	675 x 675	D400	B	STD.01.30
F4	4.200	6.340	EXISTING MH	EXISTING	-	-	

* NOTE: Southern Water Connection. New manhole inspection by Southern Water required.

SURFACE WATER MANHOLE SCHEDULE

M.H. REF.	INVERT LEVEL LOWEST PIPE	COVER LEVEL	CHAMBER SIZE INTERNAL DIMS	COVER SIZE CLEAR OPENING	COVER TYPE	M.H. TYPE	COMMENT / DRG.
S1	5.770	6.420	EXISTING MH	EXISTING	-	-	EXISTING MH
S2	5.450	6.455	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S3	-	6.380	EXISTING MH	EXISTING	-	-	DEMOLISH EXT. MH
S4	5.450	6.300	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S5	5.400	6.325	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S6	5.400	6.220	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S7	5.400	6.450	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S8	5.400	6.200	750 x 675	750 x 600	D400	CATCHPIT	STD.01.47
S9	5.850	6.200	750 x 675	750 x 600	D400	P2	STD.01.22
S10	5.510	6.500	750 x 675	750 x 600	D400	P2	STD.01.22

SOAKAWAY SCHEDULE

TYPE	EFFECTIVE DEPTH (H)	TOTAL DEPTH (m)	RING DIA. (m)	PIT DIMENSIONS PLAN (L x W) (m)	COVER SIZE (CLEAR OPENING) (mm)	COVER TYPE	COMMENT
SA 1	1.200	1.700	-	14.0 x 0.50	2 x Ø225	B125	SEE SVP'S AS HIGH STORAGE SOAKAWAY
SA 2	1.200	1.700	-	10.0 x 0.50	2 x Ø225	B125	SEE SVP'S AS HIGH STORAGE SOAKAWAY
SA 3	1.200	1.700	-	23.0 x 0.50	2 x Ø225	B125	SEE SVP'S AS HIGH STORAGE SOAKAWAY
SA 4	1.200	1.700	-	14.0 x 0.50	2 x Ø225	B125	SEE SVP'S AS HIGH STORAGE SOAKAWAY
SA 5	1.200	1.700	-	19.0 x 0.50	3 x Ø225	B125	SEE SVP'S AS HIGH STORAGE SOAKAWAY

- A Lotrak 1800 geotextile or equivalent surround is required.
- Soakaways shall be a minimum of 5.00m from any buildings or structures.
- The Contractor shall immediately notify the Engineer if groundwater is encountered in soakaway pits.
- A provisional soil infiltration rate of 2.50 x 10⁻⁶ m/sec has been used for soakaway design.

63mm Gas Main - do not duct

Gas Service Run

100mm Gas Duct

200mm Water Duct

100mm Water Duct

25mm barrier pipe

Elect 100mm duct

Elect. main cable

Elect. service cable

BT 100mm duct refer to BT drawing for

jointing box locations and W.D. for BT house points

Street lighting 63mm duct

Street lighting cable

Route of existing water supply to Kingsmead

Route of existing elect. supply to Kingsmead

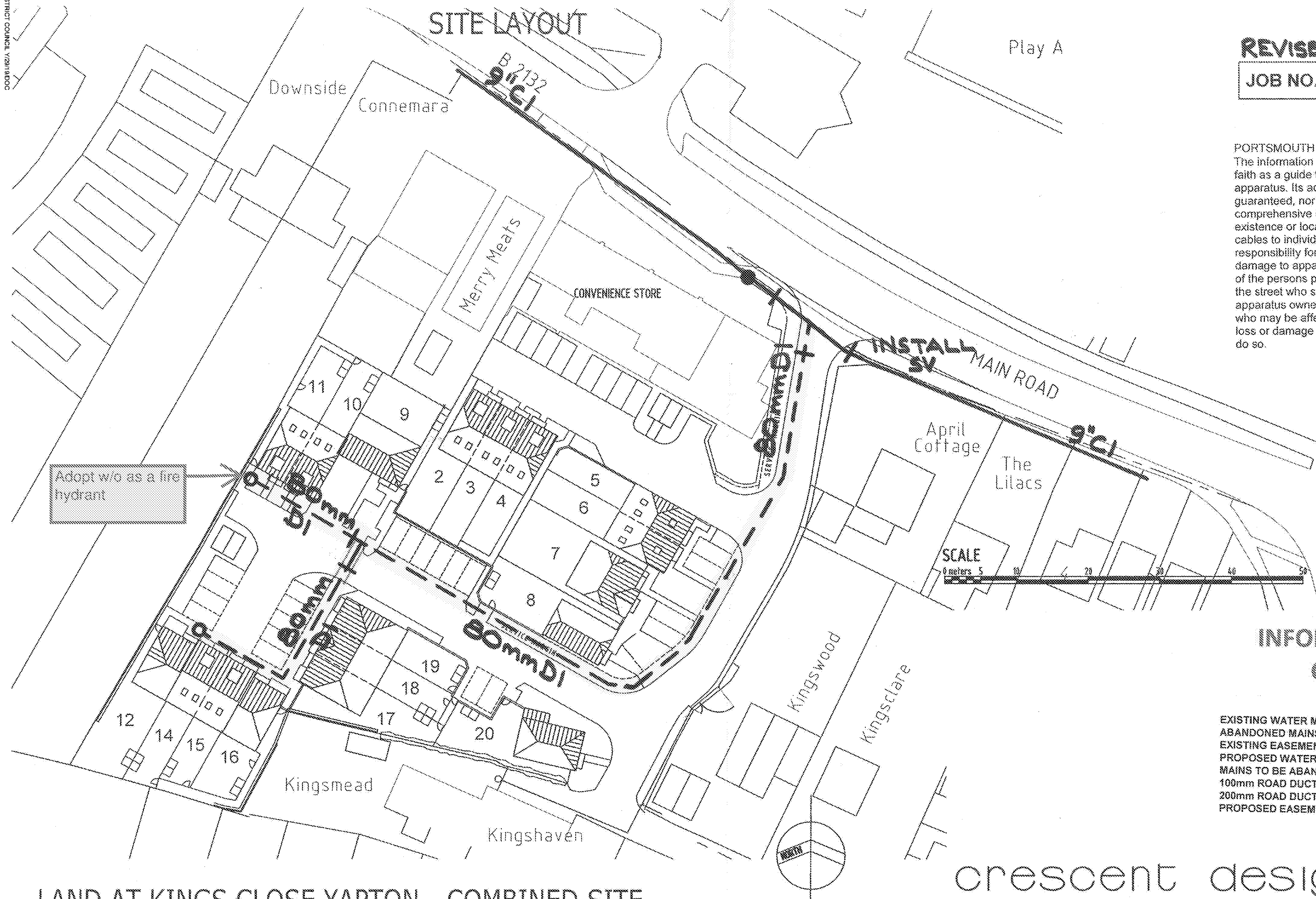
KEY

- TOPOGRAPHICAL SURVEY
- PROPOSALS
- PROPOSED SURFACE WATER DRAINS @ 100 UNLESS NOTED OTHERWISE
- SURFACE WATER MANHOLE/Ø 450 INSPECTION CHAMBER/RODDING EYE
- EXISTING FOUL WATER SEWER
- FULLY PERFORATED DISTRIBUTION PIPE
- FOUL WATER MANHOLE/Ø 450 INSPECTION CHAMBER/RODDING EYE
- GRADIENT BED TYPE (SEE STD.01.85)
- PIPE DIAMETER
- DISTANCE CHAMBER CENTRE TO CHAMBER CENTRE
- DIRECTION OF FLOW
- DRAIN TO BE ABANDONED
- HIGH STORAGE SOAKAWAY. SEE SCHEDULE
- CL = INSPECTION WELL COVER LEVEL
- BL = BASE OF STORAGE UNIT LEVEL

SITE LAYOUT

REVISED 16/07/18
JOB NO. F4860

PORTSMOUTH WATER
The information supplied is given in good faith as a guide to locating underground apparatus. Its accuracy cannot be guaranteed, nor does it include comprehensive information about the existence or location of services pipes or cables to individual premises. The responsibility for locating and avoiding damage to apparatus on site shall be that of the persons proposing to excavate in the street who shall be liable to the apparatus owner and any third party who may be affected in any way for any loss or damage caused by their failure to do so.



INFORMATION
COPY

EXISTING WATER MAINS
ABANDONED MAINS
EXISTING EASEMENT
PROPOSED WATER MAINS
MAINS TO BE ABANDONED
100mm ROAD DUCTS (service)
200mm ROAD DUCTS (main)
PROPOSED EASEMENT

LAND AT KINGS CLOSE YAPTON - COMBINED SITE

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client

project LAND AT KINGS CLOSE YAPTON date JAN 2014

drwg no 13020-01REVB

scale 1:500 @ A3

crescent designs

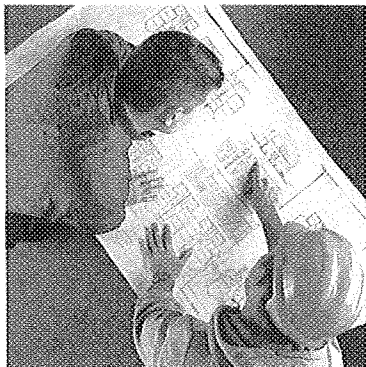
architecture

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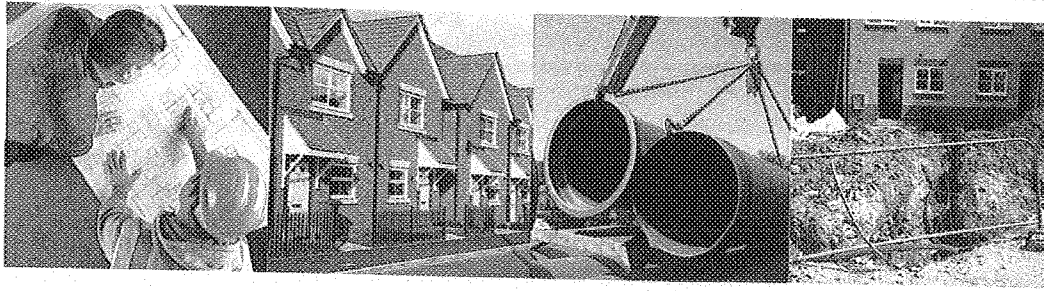


EXTRACTS

TERMS & CONDITIONS OFFER FOR MAINLAYING AT
Land At Kings Close
Yapton, West Sussex - Plotlife To Excavate & Backfill



16 July 2018



CONTAMINATED LAND

Your soil report indicates that there may be a risk of contamination from hydrocarbons, which can permeate polyethylene water pipes.

In this instance we consider that the site poses a risk to the water supply and therefore our pipes will be constructed from impermeable materials. Water supply pipes serving the properties which will be laid by you shall also be constructed from impermeable materials.

Further on site remediation may allow us to relax our requirements. We would expect to see further:

- Sampling and analysis validation certificates
- Site plan showing areas and depths of further works
- Certificates of remediation

In view that our water mains will be laid to a cover depth of 900mm post remediation should be carried out to a minimum of 1.2 metres.

Jim Hayler
023 9224 9327
j.hayler@portsmouthwater.co.uk

