ASHDOWN SITE INVESTIGATION LIMITED

GEOTECHNICAL AND ENVIRONMENTAL ENGINEERS

Head Office
The Old Dairy
Swanborough Farm
Swanborough
Lewes
East Sussex
BN7 3PF

Date: 19th December 2012 **Our Ref:** LW23303/tk

Jacqui Shilton
Grey Dune Ltd
44b Summerley Lane
Felpham
West Sussex
PO22 7HX

Dear Jacqui,

Summerley Corner, Bognor Regis, West Sussex
Supplementary Assessment Report on the Underground Tank

Introduction

Ashdown Site Investigation Ltd. had previously undertaken a ground investigatio at the site at Summerly Corner, Bognor Regis. The findings of the groun investigation were outlined in the Geotechnical and Contamination (Phase I an II) Assessment, Report No. LW23175, dated August 2012. This supplementar assessment should be read in conjunction within the previous report.

The investigation identified the presence of elevated concentrations of polycycli aromatic hydrocarbon (PAH) within the existing topsoil. An underground fue storage tank was known to be present beneath the garage building on the site bu during the investigation, it was not possible to positively identify the exact locatio of the tank as it had been concreted over.

It was understood that the tank had been backfilled between 8 and 10 years ag by a qualified contractor, though no documentation of the backfilling an decommissioning was available. It was therefore considered that further testing c the area around the tank should be undertaken once the garage building ha been demolished and the concrete slab removed.

Site Works

An engineer from Ashdown Site Investigation Ltd. attended site on 4th Decembe 2012 to excavate trial pits around the location of the tank for the purposes c assessing whether any significant residual petroleum hydrocarbon contaminatio remained.

Four trial pits (referred to as TP101 to TP104) were excavated around a slightl raised concrete slab that was located beneath the footprint of the former garag building. A site plan showing the positions of the trial pits is attached, togethe with photographs of the excavations.

The trial pits were excavated to depths of around 2.0m below ground level. Th faces of the trial pits closest to the tank recorded concrete to extend to a depth c

1.8m below ground level which is considered to represent the concrete cradle to the tank.

Undisturbed orange and grey mottled sandy clay was recorded from a depth of 0.30m on the opposite faces of the trial pits, and beneath the concrete cradle. No visual or olfactory evidence of petroleum hydrocarbons was recorded in any of the soils encountered.

Laboratory Results

Two samples were taken from each trial pit at depths of 0.90m and 1.90m below ground level and were tested for total petroleum hydrocarbons with the results speciated by equivalent carbon weight fractions. The laboratory test results are attached.

No detectable petroleum hydrocarbons above the 5mg/kg detection limit of the test were recorded in any of the samples tested.

Conclusions

The trial pitting works have confirmed the location of the tank, which appears to be located within a concrete cradle. Visual and olfactory inspection of the soils surrounding the tank recorded no evidence of petroleum hydrocarbons. No petroleum hydrocarbons were recorded by the laboratory testing.

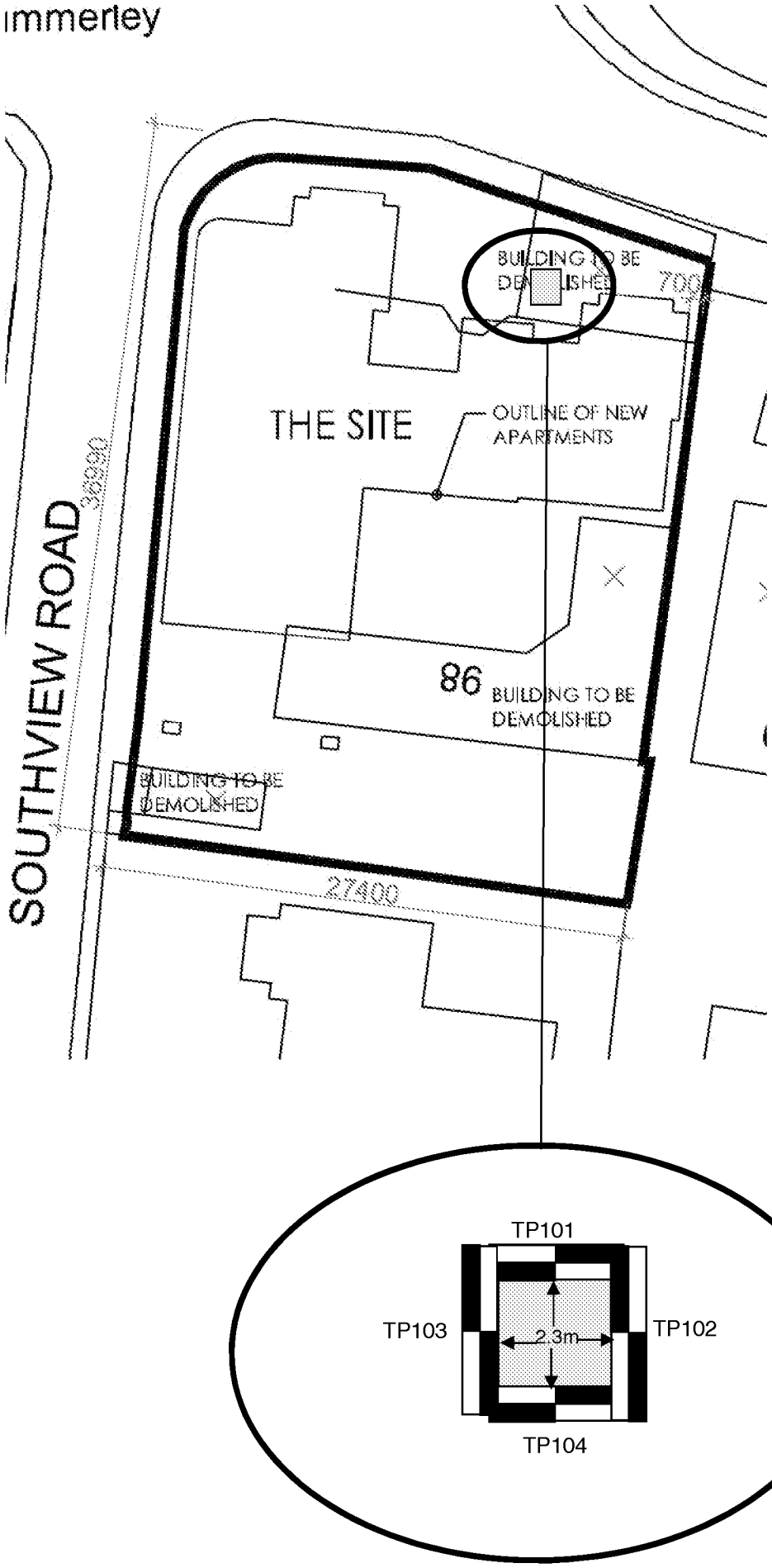
It is therefore considered that the former tank does not represent a a significant source of contamination that may pose a risk to the proposed development.

A separate remediation and verification plan setting out the works required to mitigate the identified risk from the elevated concentrations of PAH compounds within the topsoil will be compiled separately.

Yours sincerely

Sophie Shafi-Cooke
Ashdown Site Investigation Limited
Encl.

Site Plan
Laboratory Test Results
Photographs



ASHDOWN SITE INVESTIGATION LIMITED	SITE: Summerley Corner South Site, Summerley Lane, Bognor Regis, West Sussex	Site Plan Not To Scale	Figure 1 LW23303/tk

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
[redacted]

2683 2683

THE ENVIRONMENTAL LABORATORY LT

F.A.O. David Harris
Ashdown Site Investigation Limited
The Old Dairy, Swanborough Farm
Swanborough, Lewes,
East Sussex, BN7 9PF

Reporting Date: 10/12/2012

ANALYTICAL REPORT No. AR41900

Samples Received By:-	Laboratory Courier
Samples Received:-	08/12/12
Your Job No:	LW23303
Site Location:	Summerly Corner, Bognor Regis
No Samples Received:-	8

[redacted]

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

ARUN DISTRICT COUNCIL FP/103/13/DOC

Your Job No: LW23303

Reporting Date: 10/12/12

F.A.O. David Harris
Ashdown Site Investigation Limited
The Old Dairy, Swanborough Farm
Swanborough, Lewes,
East Sussex, BN7 9PF

Soils

	Characteristic	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam	Clay	Clay	Sandy clay
	TP/BH	101	101	102	102	103	103	104	104
	Depth (m)	0.90	1.90	0.90	1.90	0.90	1.90	0.90	1.90
	Our ref	56078	56079	56080	56081	56082	56083	56084	56085
C_8-C_{10}	(mg/kg)	<5	<5	<5	<5	<5	<5	<5	<5
$>C_{10}$-C_{12}	(mg/kg)	<5	<5	<5	<5	<5	<5	<5	<5
$>C_{12}$-C_{16}	(mg/kg)	<5	<5	<5	<5	<5	<5	<5	<5
$>C_{16}$-C_{21}	(mg/kg)	<5	<5	<5	<5	<5	<5	<5	<5
$>C_{21}$-C_{35}	(mg/kg)	<5	<5	<5	<5	<5	<5	<5	<5
Total Petroleum Hydrocarbons**	(mg/kg)	<5	<5	<5	<5	<5	<5	<5	<5

Accredited for TPH only, not banding
** - MCERTS Accredited test
All results expressed on dry weight basis

NRW

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
[redacted]

2683 2683

THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number	AR41900
Your Ref No:	LW23303
Sample Receipt Date:	08/12/12
Reporting Date:	10/12/12
Registered:	08/12/12
Prepared:	09/12/12
Analysis complete:	10/12/12

TEST METHOD SUMMARY

PARAMETER	Analysis Undertaken on	Date Tested	Method Number	Technique
Carbon Banding (TPH BCB)**	As submitted sample	07/12/12	117	Gas chromatography

** - MCERTS Accredited test

MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

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Photo 1 showing four trial pits surrounding concrete



Photo 2 showing clean concrete faces – junction between TP101 (bottom right) and TP102 (top left).



Photo 3 Showing TP103



Photo 4 Showing TP104

ASHDOWN SITE INVESTIGATION LIMITED	SITE: Summerly Corner, Bognor Regis, West Sussex,	Photographs	LW23303/tk