

Our ref: R2014 - L20170215
Your ref: P/2006/0079

15th February 2017

Angela Guy
Contaminated Land Officer
Wrexham County Borough Council
Housing & Public Protection Department
Ruthin Road
Wrexham
LL13 7TU

By e-mail: angela.guy@wrexham.gov.uk

Dear Angela,

Planning ref: P/2006/0079
Fron Heulog Development, Bwlchgwyn

Verification Report

Background

Smith Grant LLP (SGP) previously undertook a Stage 1 and 2 Contamination investigation and Assessment report for the above site in August 2011 as required under Condition 6 of the planning permission P/2006/007 (reference R1599-R01-v1). At the time of the investigation the majority of the site comprised a vacant plot of land. Elevated concentrations of lead, total chromium and zinc were recorded within site soils above human health assessment criteria.

A Remediation Strategy (ref. R2014-L20140718) was produced by SGP recommending placement of a geotextile membrane on existing site soils within garden areas and placement of 300mm of clean soil cover. WCBC Contaminated Land Officer reviewed the submitted Strategy and provided comment on 23.09.16, stipulating that a 600mm soil cover and basal geotextile was required.

Initial development proposals to remove -600mm of site soil and place 600mm clean soil cover over a geotextile have since changed. SGP has been provided with a copy of correspondence between the site owner and WCBC where proposals to remove -600mm of garden soils and replacement with a geotextile overlain by quarried aggregate and sand to allow installation of an artificial turf were made and approved.

Validation Works

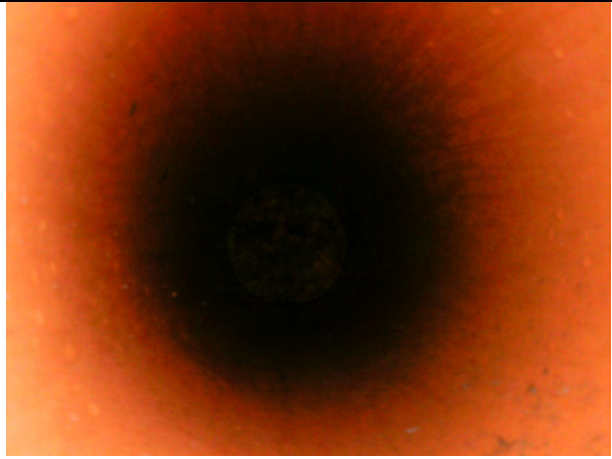
SGP has been provided with waste transfer notes for the removal of site soils (-600mm trim of existing site soils in garden area) by Thorncliffes and imported aggregate tickets by Kent Supplies Ltd. Copies of all transfer notes are appended to this report.

SGP Senior Consultant Mr D Wayland attended site on 09.11.16 to inspect the works to date and confirm the placement of a basal geotextile below the imported aggregate. The site owner has provided a photographic record of the landscaping works carried out to date which includes the removal of -600mm garden soils into Thorncliffe recycling skips for off-site disposal, installation of

orange geotextile and placement of 600mm quarried aggregate. Copies of the provided photographic record are appended to this report.

Drainage pipes have been installed across the garden area during placement of the aggregate to allow visual inspection of the basal geotextile and full depth of the 600mm cover. SGP observed an orange geotextile at the base of aggregate and validation photos are provided in the table below:

Table 1. Geotextile at the base of cover system

	
Orange geotextile visible at base of cover system.	Orange geotextile observed at base of inspection, poor clarity from shadowing of installed drainage tube.

SGP carried out a second inspection on 08.02.17 following placement of the imported aggregate to achieve the 600mm soil cover. Validation photos confirming the full depth of cover are provided in the table below:

Table 2. Depth Validation of 600mm quarried aggregate cover

	
600mm of measured aggregate cover, spirit level used to indicate level of cover as aggregate collapsed inwards upon removal of drainage pipe.	600mm of measured aggregate cover, spirit level used to indicate level of cover as aggregate collapsed inwards upon removal of drainage pipe

SGP concludes that remediation works have been carried out in accordance of the approved Strategy following regulator discussion and that no further validation inspections are required. SGP considers that full discharge of Condition 6 is now appropriate.

Yours sincerely
for: Smith Grant LLP

A handwritten signature in black ink, appearing to read 'D. Wayland', with a stylized flourish extending from the end.

D Wayland, Senior Consultant

c.c. Shereen Gittins

APPENDIX A

Client Photographic Record













APPENDIX B

Waste Transfer Note

THORNCLEIFFE EVLOE
EVLOE BARN INDUSTRIAL ESTATE
MOLD ROAD
ALLTAMI
CH7 6LG

Telephone No: 01244 549539
Waste Carriers Licence: CB/FW318027
VAT Registration Number: 713 5523 56
Vehicle Reg Nbr: OX06CFA

THORNCLEIFFE
BUILDING SUPPLIES LIMITED



GREEN
COMPASS
Going Waste Directly
CWM/PAWD
GWYRDD
Cyfnewid Cymdeithas

Site Licence: EPR/EP37975Z

TRANSACTION No.

6103242

Date	02/11/2016	Wait & Load	Skip Size	15 YARD ROLL
Customer Name	THORNCLEIFFE EVLOE	Account / Cash Sale		CASH
Site Address	GITTINGS Cae'r Fawr Fron Haulog Hill Bwlchgyrffyllt 115 5YH	Account No.		ISIKIPW4
		Order No.		
		Permit No.		
Waste Description	SOIL	EWOC Order: 17 05 04	SIC CODE	38.11
Contact Name	076936 2121	Comments:		
Contact Tel. No.				
CONTAINER PRICE	RENTAL:	SUB TOTAL:	VAT 20%	INVOICE TOTAL:
				30000.00

THE MAXIMUM PERIOD OF HIRE IS 28 DAYS

WARNING: NO ASBESTOS OR TOXIC WASTE, NO CAR BATTERIES,
TYRES, FRIDGES, FREEZERS, GAS CYLINDERS OR CLINICAL WASTE
TO BE DEPOSITED IN SKIPS, LEVEL LOADS ONLY.
No Responsibility is Accepted For Any Damage That May Be Incurred
When Skips Are On Private Property.

DISPOSAL SITE: EVLOE SITE CH7 6LG

Driver Signature:

Date: 24/11/16

TO BE COMPLETED BY THE CUSTOMER TO CONFIRM THAT THE DETAILS ABOVE ARE CORRECT.
I confirm that I have fulfilled my duty to apply waste hierarchy as required by regulation 12 of the Waste (England and Wales)
Regulations 2011.

Customer Signature:

Date: 24/11/16

THORNCLIFFE

BUILDING SUPPLIES LIMITED

GREEN COMPASS
GWRDPAWD
GWRDPAWD
GWRDPAWD



Site Licence: EPPREP 3787022

TRANSACTION No. 6103225

THORNCLIFFE EMOLOE
EMOLOE BARN INDUSTRIAL ESTATE
MOLD ROAD
ALLTAM
CH7 6LG

Telephone No. 01244 549800

Waste Carriers Licence: CB/FM3183ZY

VAT Registration Number: 713 5623 59

Vehicle Reg Nbr: PC56AWW

Waste Description : SOIL

Waste Code: 17 05 04

Waste Code: 17 05 04

Waste Code: 17 05 04

Waste Code: 17 05 04

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WARNING: NO ASBESTOS OR TOXIC WASTE, NO CAR BATTERIES, TYRES, FRIDGES, FREEZERS, GAS CYLINDERS OR CLINICAL WASTE TO BE DEPOSITED IN SKIPS, LEVEL LOADS ONLY. No Responsibility is Accepted For Any Damage That May Be Incurred When Skips Are On Private Property.

THE MAXIMUM PERIOD OF HIRE IS 28 DAYS

DISPOSAL SITE: EMOLOE SITE CH7 6LG

Driver Signature:

Date: 21/11/16

TO BE COMPLETED BY THE CUSTOMER TO CONFIRM THAT THE DETAILS ABOVE ARE CORRECT.

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

Customer Signature: Sharon Giddens

Date: 21/11/16

THORNCLIFFE EMALOE
EMALOE BARN INDUSTRIAL ESTATE
MOLD ROAD
ALL TAMI
CH7 8LG
Telephone No: 01244 549809
Waste Carriers Licence: CB2FMC183ZY
VAT Registration Number: 713 5523 50
Vehicle Reg Nbr: PC564WVV



THORNCLIFFE
BUILDING SUPPLIES LIMITED



GREEN
COMPASS
Green Waste Disposal
CWMPAWD
GWYRDD
Dyffwrdd Gwyrdd

Site Licence: EPPJEP3797SZ

TRANSACTION No.

0100040

01/11/2016		Delivery		Skip Size		15 YARD POLO	
Customer Name : THORNCLIFFE EMALOE		Account / Cash Sale :		CASH			
Address : GITTINS		Account No. :		ISKIF04			
Order No. :		Order No. :					
Permit No. :		Permit No. :					
Description : ~~EMALOE~~ L.L.I. EMO Order 17 01 07		SIC CODE		38.11			
act Name : ~~EMALOE~~ L.L.I.		Comments:					
act Tel. No. : 07308 312116							
TAINER PRICE		RENTAL:		SUB TOTAL:		INVOICE TOTAL:	
				427.50		427.50	

THE MAXIMUM PERIOD OF HIRE IS 28 DAYS

WARNING: NO ASBESTOS OR TOXIC WASTE. NO CAR BATTERIES,
TYRES, FRIGES, FREEZERS, GAS CYLINDERS OR CLINICAL WASTE
TO BE DEPOSITED IN SKIPS, LEVEL LOADS ONLY.
No Responsibility is Accepted For Any Damage That May Be Incurred
When Skips Are On Private Property.

DISPOSAL SITE:	EMALOE SITE CH7 8LG
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Driver Signature:	Date: 31/10/16
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BE COMPLETED BY THE CUSTOMER TO CONFIRM THAT THE DETAILS ABOVE ARE CORRECT.
I confirm that I have fulfilled my duty to apply waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011.

Customer Signature: Sharon Gittins	Date: 31/10/16
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THORNCLEIFF

BUILDING SUPPLIES LIMITED

GREEN
COMPASS
Grant Vasth Director
CWMPAWD
GWYRDD
Cyfnew Gwasgell



Site Location: EPR/EP/37976Z

TRANSACTION No.

6103124

Date	01/11/2016	Delivery	15 YARD POLO
Customer Name	EMVLOE BARN INDUSTRIAL ESTATE	Account / Cash Sale	CASH
Site Address	ALL TAMI CH7 6LG Telephone No: 01244 549889 Waste Carriers Licence: 02/FMP/16327 VAT Registration Number: 713 5523 56 Vehicle Reg Nbr: CX08CFA	Account No.	ISKIP04
	Order No.	Permit No.	
Waste Description	From Hedlog Hill Delictgym 11.15 5/14	SIC CODE	3811
Contact Name	Comments:		
Contact Tel. No.	07896 229543		
CONTAINER PRICE	RENTAL:	SUB TOTAL:	INVOICE TOTAL:

THE MAXIMUM PERIOD OF HIRE IS 28 DAYS

WARNING: NO ASBESTOS OR TOXIC WASTE, NO CAR BATTERIES,
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When Skips Are On Private Property.

DISPOSAL SITE: EMVLOE SITE CH7 6LG

Driver Signature:

Date:

TO BE COMPLETED BY THE CUSTOMER TO CONFIRM THAT THE DETAILS ABOVE ARE CORRECT.
I confirm that I have fulfilled my duty to apply waste hierarchy as required by regulation 12 of the Waste (England and Wales)
Regulations 2011.

Customer Signature:

Date:

APPENDIX C

Quarried Aggregate Import Ticket

KENT SUPPLIES (WREXHAM) LTD.

WESTMINSTER INDUSTRIAL ESTATE
MOLD ROAD
GWERSYLLT, WREXHAM LL11 4AF

BUILDERS' AND PLUMBERS' MERCHANTS

INVOICE TO:

Paul Gittins,

DELIVER TO:

Caer Fach

Same.

Fron Hwlog Hill, Bwlchgwyn.

DATE OF SUPPLY 23/24/4/15 YOUR ORDER NUMBER

DATE OF INVOICE

18.5.15.

QUANTITY	GOODS	PRICE	MARK UP	DISCOUNT	CODE	AMOUNT
16	Ton MOT		Ton			
16.4	Ton 20mm Gravel		Ton			

Reservation as to title:-

The ownership of the goods shall not pass to the customer until full payment of the purchase price but the risk shall pass upon Delivery.
The benefit and/or proceeds of any dealings with goods by the customer in contravention of the above reservation of property rights shall be held in trust for us.
All contracts and orders are subject to our standard conditions of sale of which copies will be forwarded on application.
Claims for loss or damage must be notified within 10 days. Liability is restricted to the exchange of faulty or damaged goods.

RECEIVED IN GOOD ORDER AND CONDITION THE GOODS DETAILED ABOVE

SIGNATURE _____ DATE _____

TOTAL GOODS

VAT @ 20 %

AMOUNT DUE £

AMOUNT DUE £

**INVOICE**

NO. **W** 439228

TELEPHONE WREXHAM 720820
WESTMINSTER INDUSTRIAL ESTATE
MOLD ROAD
GWERSYLLT, WREXHAM LL11 4AF

KENT SUPPLIES (WREXHAM) LTD.

BUILDERS' AND PLUMBERS' MERCHANTS

INVOICE TO: Pawl Gittins
Cae'r Fach, Fron
Heulog Hill, Bwlchgwyn

DELIVER TO:

Same.

DATE OF SUPPLY 11.11.16 YOUR ORDER NUMBER

DATE OF INVOICE 13-12-16

[illegible]

Reservation as to title:-

The ownership of the goods shall not pass to the customer until full payment of the purchase price but the risk shall pass upon Delivery. The benefit and/or proceeds of any dealings with goods by the customer in contravention of the above reservation of property rights shall be held in trust for us. All contracts and orders are subject to our standard conditions of sale of which copies will be forwarded on application. Claims for loss or damage must be notified within 10 days. Liability is restricted to the exchange of faulty or damaged goods.

RECEIVED IN GOOD ORDER AND CONDITION THE GOODS DETAILED ABOVE

SIGNATURE _____ DATE _____

TOTAL GOODS

VAT @ 20 %

AMOUNT DUE £