

APPENDIX 5

HOTSPOT VALIDATION – AAE PROFORMA B

Proforma B – Hot Spot/Unexpected Contamination Characteristics

Site	SAUNDERTON DATA CENTRE, HAW LANE	Grid Reference(s)	D5
Plan reference	AAe Sampling Plan 223159/D/B.1	Proforma B Reference	B/001
Contaminant(s) of concern	Identification of buried underground fuel storage tank (UST). Contained grout and a small volume of product.	Health and safety risk	Vapour/Explosion. Spillage of fuel.

1. Further delineation/investigation of area

Date	Delineation Plan	Results / Comments
29/06/22	AAe Sampling Plan	Following decommissioning and de-gassing of the UST, the tanks, its contents and the soils immediately surrounding the tank were removed by Enterprise. AAe attended site to sample the underlying and surrounding soils. No connecting pipework was observed. Samples were collected from the base and sides of the void – photo plates enclosed. No visual evidence of hydrocarbon contamination observed. PID levels recorded to maximum 173.3 ppm in base. Chemtest Report 22-24774. No elevations of TPH recorded above laboratory limits for detection (LOD). Some low elevations of VOC detected above LOD. Recorded concentrations do not exceed updated Ramboll Remedial Target Concentrations (RTCs). Pending final survey of excavation/reduced level from Enterprise.

2a. Evidence of decontamination

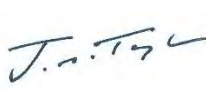
Plan Reference showing extent of removal	Results (link to report numbers)	Estimated volume	Date
N/A – No further excavation completed.			
Total estimated volume removed			
Comments			
Volume removed	Pending.		

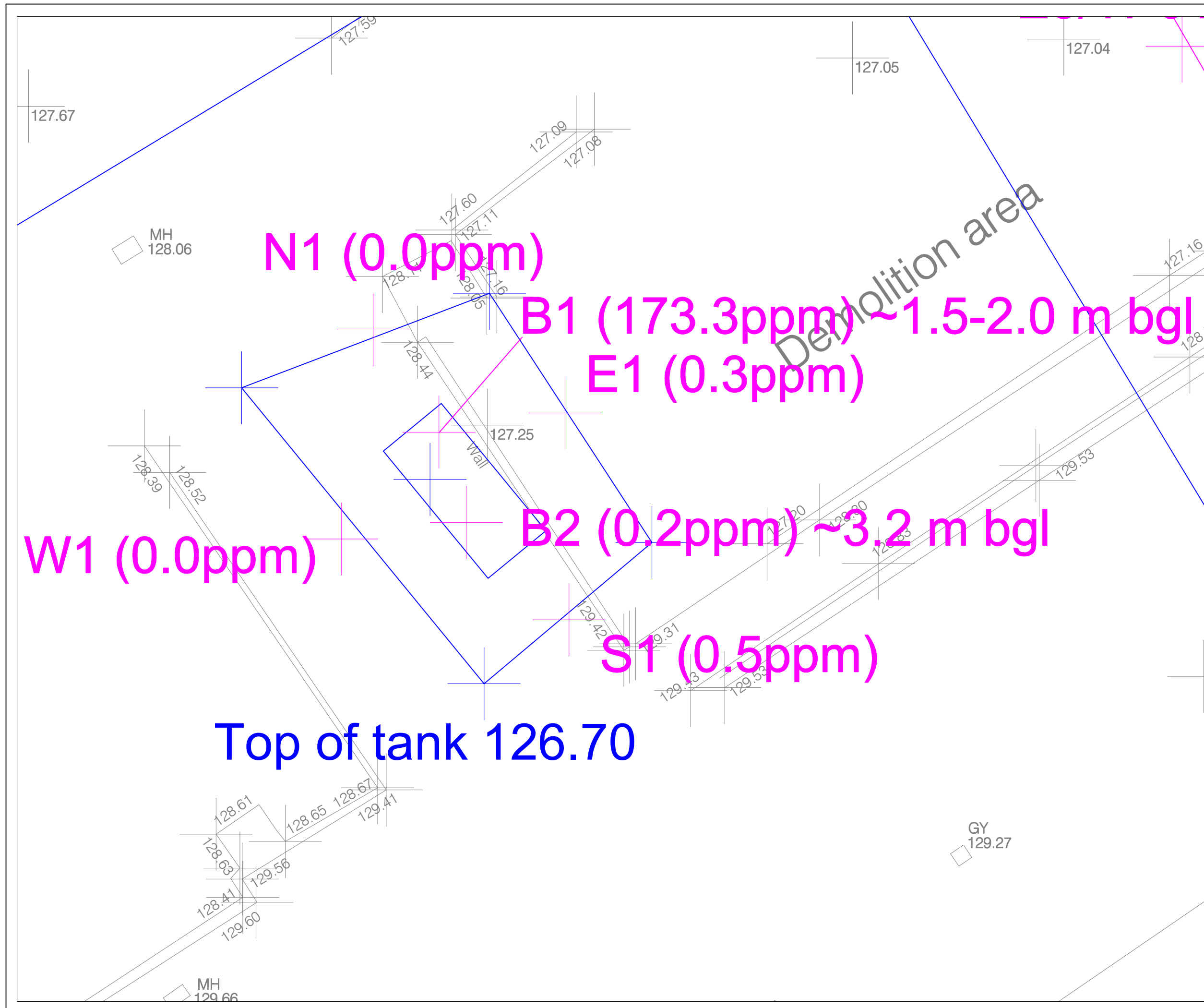
2b. Details of imported fill

	N/A – Surrounding area was reduced in level and backfilled with site-won acceptable natural subsoils where required.
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2c. Topographical survey showing reinstatement levels

Survey Drawing Reference	Pending	Surveyor	
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Sign off	Name	Signature	Date
	J Taylor		29/11/2022 (FINAL)



KEY

Validation Samples

Rev.	Details	Drawn Chkd.	Date
Project 223159 Saunderton			
Title Fuel Tank Validation Plan			
 AAe Environmental Consultants AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk			
Scale 1:100@A3	Date Jul'22	Drawn KE	Chkd. JNT
Drg. No. 223159/D/B.1			Rev.



Comment

Fuel tank prior to decommissioning and excavation.

Project

223159 - Sauderton

Photo Plate

1

Date

29/06/2022

Originator

Kieran Evans



AA Environmental Limited

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Comment

Fuel tank hotspot after the excavation and removal.

Project

223159 - Saunderton

Photo Plate

2

Date

29/06/2022

Originator

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Comment

Fuel tank base (B1) arisings.

Project

223159 – Saunderton

Photo Plate

3

Date

29/06/2022

Originator

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Comment

Fuel tank hotspot full excavation – sample points B2, E1, S1, and W1 are visible.

Project

223159 – Saunderton

Photo Plate

4

Date

29/06/2022

Originator

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Comment

Fuel tank base (B2) arisings.

Project

223159 – Saunderton

Photo Plate

5

Date

29/06/2022

Originator

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Comment

Fuel tank excavation E1 arisings.

Project

223159 – Saunderton

Photo Plate

6

Date

29/06/2022

Originator

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Comment

Fuel tank excavation W1 arisings.

Project

223159 – Saunderton

Photo Plate

7

Date

29/06/2022

Originator

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Comment

Fuel tank excavation N1 arisings.

Project

223159 – Saunderton

Photo Plate

8

Date

29/06/2022

Originator

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Comment

Fuel tank excavation S1 arisings.

Project

223159 – Saunderton

Photo Plate

9

Date

29/06/2022

Originator

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Comment

Fuel tank hotspot full excavation – sample points B2, W1, and N1 are visible

Project

223159 – Saunderton

Photo Plate

10

Date

29/06/2022

Originator

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2183

Final Report

Report No.: 22-24774-1
Initial Date of Issue: 05-Jul-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 01-Jul-2022

Order No.: **Date Instructed:** 01-Jul-2022

No. of Samples: 6

Turnaround (Wkdays): 3 **Results Due:** 05-Jul-2022

Date Approved: 05-Jul-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.: 22-24774					22-24774	22-24774	22-24774	22-24774	22-24774
Quotation No.:	Chemtest Sample ID.: 1459356					1459357	1459358	1459359	1459360	1459361
	Client Sample ID.:					N1	E1	S1	W1	B1
	Sample Location:					Fuel Tank	Fuel Tank	Fuel Tank	Fuel Tank	Fuel Tank
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:					29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022
Determinand	Accred.	SOP	Units	LOD						
Moisture	N	2030	%	0.020	8.4	21	26	12	13	22
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	< 1.0	8.6	10	< 1.0	8.7	9.4
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.4	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.: 22-24774 22-24774 22-24774 22-24774 22-24774 22-24774									
Quotation No.:	Chemtest Sample ID.: 1459356 1459357 1459358 1459359 1459360 1459361									
	Client Sample ID.: N1 E1 S1 W1 B1 B2									
	Sample Location: Fuel Tank Fuel Tank Fuel Tank Fuel Tank Fuel Tank Fuel Tank									
	Sample Type: SOIL SOIL SOIL SOIL SOIL SOIL									
	Date Sampled: 29-Jun-2022 29-Jun-2022 29-Jun-2022 29-Jun-2022 29-Jun-2022 29-Jun-2022									
Determinand	Accred.	SOP	Units	LOD						
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	41	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	42	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	200	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	130	< 1.0
Styrene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0	7.2	9.9	< 1.0	62	25

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

REMEDIAL TARGET CONCENTRATIONS

1.1 RPS (2010) Remedial Target Concentrations

RPS previously derived Remedial Target Concentrations (RTCs) for soil protective of both human health and controlled waters.^{1 2} The Soil RTCs are based on the result of qualitative and quantitative assessment of the soil quality dataset and QRA for controlled waters.

1.2 Updated Remedial Target Concentrations

Ramboll has derived updated Remedial Target Concentrations have been updated for the soil and are protective of human health taking into account updated physical-chemical and toxicologic data for the relevant compounds.

Remedial criteria have been derived for specific land-use at the site post development, based on the proposed development layout presented for *Hardstanding and buildings* and *soft landscaping areas*. For the soft landscaping areas it has been assumed that there is the potential for public access, due to the extent of the landscaped areas, and therefore both commercial end use standards and public open space standards have been taken into consideration.

The original Remedial Targets also included Controlled Water targets for soil for TPH Aromatic 10-12 and TPH Aromatic 12-16, as such these have been carried forward and applied in the updated Remedial Target Values to protect Controlled Waters.

The combined RTCs for areas of hardstanding and areas of soft landscaping are summarised Table 1.1 below.

¹ RPS, QUANTITATIVE RISK ASSESSMENT, SAUNDERTON DATA CENTRE, NOVEMBER 2010, Ref: BES0131R101117AGQRA

² RPS, SITE REMEDIATION STRATEGY, SAUNDERTON DATA CENTRE, NOVEMBER 2010, Ref: BES0131

Table 1.1. Updated Remedial Target Concentrations						
Determinand	Hardstanding and Buildings			Soft Landscaping Areas		
	Source of RPS RTC	Previous Target Level (mg / kg)	Updated Hardstanding Target Level* (mg / kg)	Source of RPS RTC	Target Level (mg / kg)	Updated Landscaping Target Level* (mg / kg)
Benzene	SGV (Industrial)	95	15	GAC (Industrial)	95	15"
Toluene	SGV (Industrial)	4,400	33,000	GAC (Industrial)	4,400	33,000"
Ethylbenzene	SGV (Industrial)	2,800	3,200	GAC (Industrial)	2,800	3,200"
o-xylene	SGV (Industrial)	2,600	3,700	GAC (Industrial)	2,600	3,700"
m-xylene	SGV (Industrial)	3,500	3,400	GAC (Industrial)	3,500	3,400"
p-xylene	SGV (Industrial)	3,200	3,300	GAC (Industrial)	3,200	3,300"
Aliphatic C5-6	GAC (Industrial)	3,400	2,400	GAC (Industrial)	3,400	2,400"
Aliphatic C6-8	GAC (Industrial)	8,300	5,300	GAC (Industrial)	8,300	5,300"
Aliphatic C8-10	GAC (Industrial)	2,100	1,300	GAC (Industrial)	2,100	1,300"
Aliphatic C10-12	GAC (Industrial)	10,000	6,100	GAC (Industrial)	10,000	6,100"
Aliphatic C12-16	GAC (Industrial)	61,000	43,000	GAC (Industrial)	61,000	23,000"

Table 1.1. Updated Remedial Target Concentrations						
Aliphatic C16-35	GAC (Industrial)	-	1,000,000	GAC (Industrial)	1,600,000	410,000
Aliphatic C35-44	GAC (Industrial)	-	1,000,000	GAC (Industrial)	1,600,000	410,000
Aromatic C5-7	GAC (Industrial)	28,000	15	GAC (Industrial)	28,000	15"
Aromatic C7-8	GAC (Industrial)	59,000	33000	GAC (Industrial)	59,000	33,000"
Aromatic C8-10	GAC (Industrial)	3,700	2,200	GAC (Industrial)	3,700	2,200"
Aromatic C10-12	Controlled Waters	10,000 [425]	425^	Controlled Waters	17,000	425^
Aromatic C12-16	Controlled Waters	1,900 [1,900]	1,900^	Controlled Waters	36,000	1,900^
Aromatic C16-21	GAC (Industrial)	-	29,000	GAC (Industrial)	28,000	7,900
Aromatic C21-35	GAC (Industrial)	-	29,000	GAC (Industrial)	28,000	7,900
Aromatic C35-44	GAC (Industrial)	-	29,000	GAC (Industrial)	28,000	7,900
Acenaphthene	-	-	75,000	GAC (Industrial)	85,000	28,000
Acenaphthylene	-	-	76,000	GAC (Industrial)	84,000	28,000
Anthracene	-	-	520,000	GAC (Industrial)	530,000	150,000
Benzo(a)anthracene	-	-	BaP Surrogate	GAC (Industrial)	90	BaP Surrogate
Benzo(a)pyrene	-	-	76	GAC (Industrial)	14	21
Benzo(b)fluoranthene	-	-	BaP Surrogate	GAC (Industrial)	100	BaP Surrogate

Table 1.1. Updated Remedial Target Concentrations

Benzo(ghi)perylene	-	-	BaP Surrogate	GAC (Industrial)	650	BaP Surrogate
Benzo(k)fluoranthene	-	-	BaP Surrogate	GAC (Industrial)	140	BaP Surrogate
Chrysene	-	-	BaP Surrogate	GAC (Industrial)	140	BaP Surrogate
Dibenzo(ah)anthracene	-	-	BaP Surrogate	GAC (Industrial)	13	BaP Surrogate
Fluoranthene	-	-	23,000	GAC (Industrial)	23	6,300
Fluorene	-	-	60,000	GAC (Industrial)	64,000	19,000
Indeno(123-cd)pyrene	-	-	BaP Surrogate	GAC (Industrial)	60	BaP Surrogate
Naphthalene	GAC (Industrial)	200	110	GAC (Industrial)	200	110"
Phenanthrene	-	-	22,000	GAC (Industrial)	22,000	6,200
Pyrene	-	-	54000	GAC (Industrial)	54,000	15,000
Asbestos	NA	No Identifiable Asbestos	No Quantifiable Asbestos over the Hazardous Waste Threshold (0.1%)	NA	No Identifiable Asbestos	No Quantifiable Asbestos over the Hazardous Waste Threshold (0.1%)

Notes:

* Updated Hardstanding Guideline Assessment Criteria are based on Ramboll GACs for Commercial/Industrial end use. These are based on the standard GAC scenario for Commercial/Industrial with 1% Soil Organic Matter in a Sand. The phys-chem and toxicological data is taken from a range of literature sources including the Environment Agency Science Report documents, LQM's S4UL publication, CLAIRE documentation and other relevant published literature sources.

& Updated Landscaping Guideline Assessment Criteria are based on Ramboll GACs for Public Open Space 2. These are based on the standard GAC scenario for Public Open Space 2 with 1% Soil Organic Matter in a Sand. It is noted that where the Commercial/Industrial GAC is more stringent, this value has been adopted for Landscaped areas as a precautionary approach (marked as ").

Benzene and Benzo(a)pyrene GACs are based on the C4SL approach and toxicity assessment for Low Level of Concern, the remaining contaminants are based on Minimal Risk toxicology assessment.

TPH Aromatic 5-7 and TPH Aromatic 7-8 are assumed to be equivalent to benzene and toluene, and as such the GACs for these compounds have been applied to the relevant TPH Carbon chains.

^ values are based on original remedial targets, based on protection of Controlled Waters

Proforma B – Hot Spot/Unexpected Contamination Characteristics

Site	SAUNDERTON DATA CENTRE, HAW LANE	Grid Reference(s)	E5
Plan reference	E5/TP01 Hotspot Excavation & Validation	Proforma B Reference	B/002
Contaminant(s) of concern	E5/TP01 Hydrocarbon/VOC hotspot extending below formation level (125m AOD)	Health and safety risk	Vapour.

1. Investigation of area – Source characterisation

Date	Investigation Reference(s)	Results / Comments
26/06/14 & 27/06/14	Hydrock TP321 (TP321A)	Original identification of hydrocarbon hotspot by Hydrock. I2 Analytical Reports: 14-56938 and 14-56938.
31/05/22	AAe E5/TP01 trial pit.	Supplementary trial pit in close proximity to TP321/321A. Strong hydrocarbon odours and staining observed. Chemtest Eurofins Report: 22-20694
28/06/22	Sampling of hotspot during excavation	Sampling of observed worst-case material 'Hotspot 1' sample. Confirmed presence of chlorinated solvents. Chemtest Eurofins Report: 22-24545

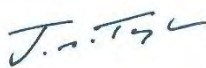
2a. Evidence of decontamination/removal

Plan Reference showing extent of removal	Results (link to report numbers)	Estimated volume	Date
E5/TP01 Hotspot Excavation & Validation	22-24545 22-24772	TBC – Final volume to be confirmed by Enterprise.	28/06/22 – 30/06/22
Total estimated volume removed	TBC		
Comments AAe sampled base and sides of excavation. Excavation terminated at approximately 119 m AOD (6 m below formation level). Some concentrations of TPH and VOC recorded above laboratory limits of detection. There are no exceedances against the Ramboll Remedial Target Concentrations (RTCs). Consolidated data table attached.			
Volume removed	TBC		

2b. Details of imported fill

N/A – Reinstatement with site-won acceptable natural uncontaminated subsoils (chalk). Enterprise to confirm source grid square(s).

2c. Topographical survey showing reinstatement levels

Survey Drawing Reference		Surveyor	
Sign off	Name	Signature	Date
	J Taylor		29/11/22 (FINAL)

Method: Trial Pit			Date: 26/06/2014		Logged By: MO		Checked By: <i>AT</i>	
Client: St. Congar			Co-Ords: 480860.50, 198488.00		Pit Stability: stable		Dimensions:	
Hydrock Project No: C13649			Elevation: 126.88mAOD		Plant: 20T excavator		1.00m	
Samples and In Situ Testing			Groundwater	Stratum Description	Depth m bgl	Thickness (m)	Level mAOD	Legend
Depth (m)	Type	Results						
				Reinforced CONCRETE. (MADE GROUND)	0			
0.70	E			Blue grey heavily stained CHALK highly contaminated with degraded hydrocarbons. Strong odour. Staining extends to base of pit at east end, and to 1.5m at west end. (MIDDLE CHALK)	0.20	(0.20)	126.68	
1.30	E				1	(1.50)		
					1.70		125.18	
				End of Trial Pit at 1.70 m				
					2			
					3			

General Remarks:

1. Water from shallow (0.6m) gully flooded pit. Oily water ran clean and stopped after 10 minutes.
2. Trial pit backfilled with arisings and compacted with excavator bucket.
3. Heavily hydrocarbon stained with strong odour.



Method: Trial Pit			Date: 27/06/2014		Logged By: MO		Checked By: <i>AS</i>	
Client: St. Congar			Co-Ords: 480858.90, 198494.20		Pit Stability: stable		Dimensions:	
Hydrock Project No: C13649			Elevation: 127.01mAOD		Plant: 20T excavator		1.00m 3.00m	
Samples and In Situ Testing			Groundwater	Stratum Description	Depth m bgl	Thickness (m)	Level mAOD	Legend
Depth (m)	Type	Results						
				Lightly reinforced CONCRETE. (MADE GROUND)	0			
0.50	E			Blue grey stained CHALK with strong hydrocarbon odour. Interface of contaminated chalk and underlying unstained chalk dips south towards assumed source of contamination, from 1.0m at north end of pit to 2.0m at south end. Chalk stained blue grey with black coatings on fractures. Strong odour. Unstained chalk at 2.0m at north end of pit. (MIDDLE CHALK)	0.40	(0.40)	126.61	
1.00	E				1		(1.00)	
2.00	E				2			
2.20	E				2.30		124.71	
				End of Trial Pit at 2.30 m				

General Remarks:

1. No groundwater encountered.
2. Trial pit backfilled with arisings and compacted with excavator bucket.
3. Heavily hydrocarbon stained with strong odour.



Trial Pit Log

TrialPit No
E5/TP01
Sheet 1 of 1

Project Name: Saunderton Data Centre

Project No.
223159

Co-ords: -
Level:

Date
31/05/2022

Location: Former Molins Site, Haw Lane, Saunderton, HP14 4JG (approx)

Dimensions (m): 3.00

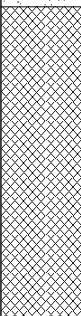
Scale
1:20

Client: Avalon/Ramboll

Depth
3.80

2.10

Logged
TRE

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.25 - 1.10	ES		0.25			Reinforced CONCRETE.	
	1.10 - 2.80	ES		1.10			Dark brownish-whitish-grey, with occasional blackish staining, bouldery, cobbly, gravelly SAND. Boulders of sub-angular brick and concrete. Cobbles of sub-angular brick, concrete and chalk. Gravels are fine to coarse, sub-angular of brick, concrete and chalk. Sand is fine to coarse and ashy on occasion. Clay tile/pipe fragments. Suspected fragments of ACM at 0.65 m. Metal manhole cover at 1.10 m (MADE GROUND).	1
							Bluish-black, cobbly, gravelly, slightly clayey SAND. Cobbles of angular to sub-angular chalk. Gravels are fine to coarse, angular to sub-angular of chalk. Sand is fine to coarse. Hydrocarbon/organic staining throughout (NEW PIT CHALK FORMATION).	2
				2.80			Bluish-brown, cobbly, gravelly, slightly clayey SAND. Cobbles of angular to sub-angular chalk. Gravels are fine to coarse, angular to sub-angular of chalk. Sand is fine to coarse. Occasional, becoming sporadic hydrocarbon/organic staining throughout (NEW PIT CHALK FORMATION).	3
	3.30 - 3.80	ES		3.30			White, cobbly, gravelly SAND. Cobbles of angular to sub-angular chalk. Gravels are fine to coarse, angular to sub-angular of chalk. Sand is fine to coarse (NEW PIT CHALK FORMATION).	
				3.80			End of Pit at 3.80m	4

Remarks: Trial pit was constructed by a tracked 360 excavator. No groundwater was encountered. Suspected ACM fragments encountered at 0.65 m BGL. Hydrocarbon/organic staining encountered between from 0.25 m - 3.30 m BGL.

Stability: Stable. On completion of logging and sampling, trial pit was backfilled with arisings in order of sequence and compacted.





Comment Trial pit E5/TP01, excavated to 3.80 m BGL.	Project 223159 – Saunderton
	Photo Plate 15
	Date 31/05/2022
	Originator Tomos Eaves
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

Trial pit E5/TP01, excavated to 3.80 m BGL.

Project

223159 – Saunderton

Photo Plate

16

Date

31/05/2022

Originator

Tomos Eaves



AA Environmental Limited

Units 4-8 Cholswell Court

Shippon, Abingdon

OX13 6HX

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F: (01235) 523849

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www.aae-ltd.co.uk



Comment E5/TP01 Made Ground arisings.	Project 223159 – Saunderton
	Photo Plate 17
	Date 31/05/2022
	Originator Tomos Eaves
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk


Comment

Fragment of suspected Asbestos Containing Material (ACM) encountered in E5/TP01.

Project

223159 – Saunderton

Photo Plate

18

Date

31/05/2022

Originator

Tomos Eaves


AA Environmental Limited

Units 4-8 Cholswell Court

Shippon, Abingdon

OX13 6HX

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Comment E5/TP01 natural arisings with potential hydrocarbon/organic staining present (1.10 m – 2.80 m BGL).	Project 223159 – Saunderton
	Photo Plate 19
	Date 31/05/2022
	Originator Tomos Eaves
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk


Comment

E5/TP01 natural arisings with less prevalent hydrocarbon/organic staining present from 2.80 m – 3.80 m BGL.

Project

223159 – Saunderton

Photo Plate

20

Date

31/05/2022

Originator

Tomos Eaves


AA Environmental Limited

Units 4-8 Cholswell Court

Shippon, Abingdon

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Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353876	353878	353879	353880	353881
Sample Reference				TP317	TP318	TP319	TP320	TP321
Sample Number				None Supplied	E2	None Supplied	None Supplied	None Supplied
Depth (m)				0.70	0.50-1.50	0.30	0.50	0.70
Date Sampled				25/06/2014	30/06/2014	27/06/2014	26/06/2014	26/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	8.1
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	24
o-xylene	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	35
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	0.5
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	150
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	940
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	12000
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	34	-	37	< 8.0	54000
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	NONE	34	-	37	< 10	65000
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	2500
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	23
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	210
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	-	< 10	< 10	3200
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	-	< 10	< 10	14000
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	2500



Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353882	353883	353884	353885	353886
Sample Reference				TP321	TP321 _a	TP321 _a	TP321 _a	TP321 _a
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.30	0.50	1.00	2.00	2.20
Date Sampled				26/06/2014	27/06/2014	27/06/2014	27/06/2014	27/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	13	9.1	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	56	31	51	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	0.5	0.2	0.7	< 0.1	0.3
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	180	1.8	< 1.0	2.4	270
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	990	140	46	5.4	1200
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	12000	4400	2500	33	6200
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	52000	39000	26000	290	50000
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	NONE	64000	43000	29000	320	57000
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	2500	2600	1700	55	2800
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	0.1	< 0.1	0.1	< 0.1	< 0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	27	2.6	< 1.0	< 1.0	120
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	350	69	11	< 2.0	470
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	7700	1400	870	12	2400
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	25000	12000	8000	98	14000
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	4000	3100	2000	64	2900

Project: 223159 Saunderton

Client: AA Environmental Ltd		Chemtest Job No.:		22-24545
Quotation No.:		Chemtest Sample ID.:		1458528
Order No.:		Client Sample Ref.:		E5/TP01
		Client Sample ID.:		Hotspot 1
		Sample Type:		SOIL
		Date Sampled:		28-Jun-2022
		Asbestos Lab:		
Determinand	Accred.	SOP	Units	LOD
ACM Type	U	2192		N/A
Asbestos Identification	U	2192		N/A
Moisture	N	2030	%	0.020
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0
Chloromethane	U	2760	µg/kg	1.0
Vinyl Chloride	U	2760	µg/kg	1.0
Bromomethane	U	2760	µg/kg	20
Chloroethane	U	2760	µg/kg	2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0
Bromochloromethane	U	2760	µg/kg	5.0
Trichloromethane	U	2760	µg/kg	1.0
1,1,1-Trichloroethane	U	2760	µg/kg	1.0
Tetrachloromethane	U	2760	µg/kg	1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0
Benzene	U	2760	µg/kg	1.0

Project: 223159 Saunderton				Chemtest Job No.:		22-24545
Client: AA Environmental Ltd				Chemtest Sample ID.:		1458528
Quotation No.:				Client Sample Ref.:		E5/TP01
Order No.:				Client Sample ID.:		Hotspot 1
				Sample Type:		SOIL
				Date Sampled:		28-Jun-2022
				Asbestos Lab:		
Determinand	Accred.	SOP	Units	LOD		
1,2-Dichloroethane	U	2760	µg/kg	2.0	40000	
Trichloroethene	N	2760	µg/kg	1.0	22	
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0	
Dibromomethane	U	2760	µg/kg	1.0	< 1.0	
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	
Toluene	U	2760	µg/kg	1.0	37000	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	
1,1,2-Trichloroethane	U	2760	µg/kg	10	1900	
Tetrachloroethene	U	2760	µg/kg	1.0	230000	
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	
Dibromochloromethane	U	2760	µg/kg	10	< 10	
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0	
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0	
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0	
Ethylbenzene	U	2760	µg/kg	1.0	290000	
m & p-Xylene	U	2760	µg/kg	1.0	680000	
o-Xylene	U	2760	µg/kg	1.0	130000	
Styrene	U	2760	µg/kg	1.0	< 1.0	
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	
Isopropylbenzene	U	2760	µg/kg	1.0	280	
Bromobenzene	U	2760	µg/kg	1.0	10000	
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	
N-Propylbenzene	U	2760	µg/kg	1.0	1100	
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	
Tert-Butylbenzene	U	2760	µg/kg	1.0	120	
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	190	
Sec-Butylbenzene	U	2760	µg/kg	1.0	190	
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	
4-Isopropyltoluene	U	2760	µg/kg	1.0	120	
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	
N-Butylbenzene	U	2760	µg/kg	1.0	210	
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0	
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	

Project: 223159 Saunderton

Client: AA Environmental Ltd		Chemtest Job No.: 22-24545			
Quotation No.:		Chemtest Sample ID.:		1458528	
Order No.:		Client Sample Ref.:		E5/TP01	
		Client Sample ID.:		Hotspot 1	
		Sample Type:		SOIL	
		Date Sampled:		28-Jun-2022	
		Asbestos Lab:			
Determinand	Accred.	SOP	Units	LOD	
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0
N-Nitrosodimethylamine	U	2790	mg/kg	0.50	< 0.50
Phenol	U	2790	mg/kg	0.50	18
2-Chlorophenol	U	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	U	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene	U	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene	U	2790	mg/kg	0.50	< 0.50
2-Methylphenol	U	2790	mg/kg	0.50	5.2
Bis(2-Chloroisopropyl)Ether	U	2790	mg/kg	0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine	U	2790	mg/kg	0.50	< 0.50
4-Methylphenol	U	2790	mg/kg	0.50	110
Nitrobenzene	U	2790	mg/kg	0.50	< 0.50
Isophorone	U	2790	mg/kg	0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	28
Bis(2-Chloroethoxy)Methane	U	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol	U	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene	U	2790	mg/kg	0.50	< 0.50
Naphthalene	U	2790	mg/kg	0.50	1.5
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene	U	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol	U	2790	mg/kg	0.50	1.9
2-Methylnaphthalene	U	2790	mg/kg	0.50	2.0
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol	U	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol	U	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene	U	2790	mg/kg	0.50	< 0.50
2-Nitroaniline	U	2790	mg/kg	0.50	1.2
Acenaphthylene	U	2790	mg/kg	0.50	< 0.50
Dimethylphthalate	U	2790	mg/kg	0.50	8.8
2,6-Dinitrotoluene	U	2790	mg/kg	0.50	< 0.50
Acenaphthene	U	2790	mg/kg	0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50
Dibenzofuran	U	2790	mg/kg	0.50	1.3
4-Chlorophenylphenylether	U	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene	U	2790	mg/kg	0.50	< 0.50

Project: 223159 Saunderton

Client: AA Environmental Ltd		Chemtest Job No.:		22-24545
Quotation No.:		Chemtest Sample ID.:		1458528
Order No.:		Client Sample Ref.:		E5/TP01
		Client Sample ID.:		Hotspot 1
		Sample Type:		SOIL
		Date Sampled:		28-Jun-2022
		Asbestos Lab:		
Determinand	Accred.	SOP	Units	LOD
Fluorene	U	2790	mg/kg	0.50
Diethyl Phthalate	U	2790	mg/kg	0.50
4-Nitroaniline	U	2790	mg/kg	1.1
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	< 0.50
Azobenzene	U	2790	mg/kg	0.50
4-Bromophenylphenyl Ether	U	2790	mg/kg	0.81
Hexachlorobenzene	U	2790	mg/kg	< 0.50
Pentachlorophenol	U	2790	mg/kg	< 0.50
Phenanthrene	N	2790	mg/kg	0.50
Anthracene	U	2790	mg/kg	6.0
Carbazole	U	2790	mg/kg	0.50
Di-N-Butyl Phthalate	U	2790	mg/kg	1.4
Fluoranthene	U	2790	mg/kg	< 0.50
Pyrene	U	2790	mg/kg	2.4
Butylbenzyl Phthalate	U	2790	mg/kg	0.50
Benzo[a]anthracene	U	2790	mg/kg	< 0.50
Chrysene	U	2790	mg/kg	0.50
Bis(2-Ethylhexyl)Phthalate	U	2790	mg/kg	2.2
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50
Benzo[b]fluoranthene	U	2790	mg/kg	0.50
Benzo[k]fluoranthene	U	2790	mg/kg	< 0.50
Benzo[a]pyrene	U	2790	mg/kg	0.50
Indeno(1,2,3-c,d)Pyrene	U	2790	mg/kg	< 0.50
Dibenz(a,h)Anthracene	U	2790	mg/kg	0.50
Benzo[g,h,i]perylene	U	2790	mg/kg	< 0.50



Amended Report

Report No.:	22-20694-2		
Initial Date of Issue:	09-Jun-2022	Date of Re-Issue:	16-Jun-2022
Client	AA Environmental Ltd		
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX		
Contact(s):	Reporting		
Project	223159 Saunderton		
Quotation No.:		Date Received:	06-Jun-2022
Order No.:		Date Instructed:	10-Jun-2022
No. of Samples:	19		
Turnaround (Wkdays):	4	Results Due:	15-Jun-2022
Date Approved:	16-Jun-2022		
Approved By:			

Details: Stuart Henderson, Technical Manager

Bulk Identification Certificate

Client: AA Environmental Ltd
Site Address:
Date Sampled: 31-May-2022
Date Received: 06-Jun-2022

Your Ref.:
Project: 223159 Saunderton
Job Number: 22-20694
No Samples:
Date Reported: 09-Jun-2022

Sample No.	Sample ID	Sample Ref.	Description	Top (m)	Bottom (m)	SOP	Accred.	Laboratory	Material	Result
1441244	AS5		TP02/E3			2185	U	DURHAM	Cement	Chrysotile
1441245	AS6		TP01/E5	0.65		2185	U	DURHAM	Cement	Chrysotile

The in-house procedure SOP2185 is in accordance with the requirements of Appendix 2 of the Analyst Guide (HSG 248).

The results relate only to items tested as supplied by the client.

Comments and interpretations are beyond the scope of UKAS accreditation.

Samples associated with asbestos in building surveys are retained for six months (HSG 264 refers)

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694
Quotation No.:	Chemtest Sample ID.:				1441227	1441228	1441229	1441230	1441231	1441232	1441233	1441234
	Sample Location:				TP01/E3	TP01/E3	TP02/D3	TP02/D3	TP03/D3	TP03/D3	TP02/E3	TP02/E3
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.45	0.25	0.65	0.40	1.20	0.70	3.00
	Bottom Depth (m):				0.45	1.10	0.65	1.70	1.1	2.20	1.70	4.00
	Date Sampled:				31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	6.0	20	16	22	21	21	14	16
Soil Colour	N	2040		N/A	Brown	White	Brown	Beige	Brown	White	Brown	White
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Gravel	Clay	Loam	Clay	Clay	Clay	Gravel	Clay
pH	M	2010		4.0	9.9	9.4	11.1	9.8	9.1	10.3	10.2	11.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	< 0.40	0.77	0.46	0.85	0.57	0.99	0.74
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.077	0.022	0.25	0.047	0.058	0.087	0.32	0.36
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	4.0	1.2	1.6	2.1	1.3	1.0	1.3	1.4
Arsenic	M	2455	mg/kg	0.5	11	1.3	3.4	< 0.5	2.7	3.9	6.5	2.2
Cadmium	M	2455	mg/kg	0.10	1.1	0.14	0.56	< 0.10	0.16	< 0.10	0.47	0.11
Chromium	M	2455	mg/kg	0.5	14	2.2	11	1.5	5.5	2.2	34	5.6
Copper	M	2455	mg/kg	0.50	10	2.8	11	1.6	7.9	6.1	140	22
Mercury	M	2455	mg/kg	0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	13	3.3	8.5	2.0	5.9	4.9	19	5.9
Lead	M	2455	mg/kg	0.50	86	6.0	17	2.3	12	3.6	31	14
Selenium	M	2455	mg/kg	0.25	0.45	< 0.25	0.30	< 0.25	< 0.25	< 0.25	0.39	< 0.25
Vanadium	U	2455	mg/kg	0.5	14	2.2	9.5	1.5	6.3	6.5	22	5.5
Zinc	M	2455	mg/kg	0.50	140	13	86	7.2	54	20	93	46
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	5.5	4.9	4.2	6.5	3.2	3.0	3.4	3.8
Diesel Present	N	2670		N/A			True					
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	530	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	1100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	1900	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694
Quotation No.:	Chemtest Sample ID.:		1441227	1441228	1441229	1441230	1441231	1441232	1441233	1441234	1441234	1441234
	Sample Location:		TP01/E3	TP01/E3	TP02/D3	TP02/D3	TP03/D3	TP03/D3	TP02/E3	TP02/E3	TP02/E3	TP02/E3
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.20	0.45	0.25	0.65	0.40	1.20	0.70	3.00	3.00	3.00
	Bottom Depth (m):		0.45	1.10	0.65	1.70	1.1	2.20	1.70	4.00	4.00	4.00
	Date Sampled:		31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022
	Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	1900	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.83	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.83	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.49	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.80	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	6.4	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694
Quotation No.:	Chemtest Sample ID.:				1441235	1441236	1441237	1441238	1441239	1441240	1441241	1441242
	Sample Location:				TP02/D5	TP01/E5	TP01/E5	TP01/E5	TP03/D4	TP05/D4	TP05/D4	TP04/D4
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.45	0.25	1.10	3.30	0.85	0.30	1.70	0.20
	Bottom Depth (m):				1.10	1.10	2.80	3.80	1.50	1.30	2.70	1.30
	Date Sampled:				31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	20	16	23	21	21	22	22	13
Soil Colour	N	2040		N/A	White	Brown	Black	Beige	White	Brown	White	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Gravel	Gravel	Clay	Clay	Clay	Clay	Clay	Gravel
pH	M	2010		4.0	10.5	10.0	9.2	9.3	9.5	9.4	9.6	11.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	2.7	1.2	< 0.40	< 0.40	0.76	< 0.40	0.65
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.078	0.56	0.43	0.042	0.15	0.087	0.022	0.24
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	0.80	2.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.9	0.75	0.90	0.97	5.0	11	78	8.7
Arsenic	M	2455	mg/kg	0.5	0.7	4.5	2.3	< 0.5	< 0.5	1.2	0.6	11
Cadmium	M	2455	mg/kg	0.10	< 0.10	1.5	4.1	0.11	< 0.10	0.13	0.10	0.64
Chromium	M	2455	mg/kg	0.5	1.5	19	46	2.7	1.4	3.8	2.1	14
Copper	M	2455	mg/kg	0.50	2.5	170	1400	22	2.3	7.7	2.9	130
Mercury	M	2455	mg/kg	0.05	< 0.05	0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	1.5	28	66	3.0	1.5	3.8	2.3	20
Lead	M	2455	mg/kg	0.50	2.0	410	310	21	2.6	11	2.7	200
Selenium	M	2455	mg/kg	0.25	< 0.25	0.69	0.60	< 0.25	< 0.25	< 0.25	0.28	0.36
Vanadium	U	2455	mg/kg	0.5	1.9	12	4.9	1.0	1.4	4.8	2.5	15
Zinc	M	2455	mg/kg	0.50	8.5	140	880	19	8.2	49	13	480
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	4.6	9.5	13	11	5.3	5.1	2.7	3.8
Diesel Present	N	2670		N/A	False	False	False	False				False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	530	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	1400	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	12000	52000	2400	< 1.0	< 1.0	< 1.0	77
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	1300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	12000	76000	2400	< 5.0	< 5.0	< 5.0	77
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	53	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	120	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694	22-20694
Quotation No.:	Chemtest Sample ID.:				1441235	1441236	1441237	1441238	1441239	1441240	1441241	1441242
	Sample Location:				TP02/D5	TP01/E5	TP01/E5	TP01/E5	TP03/D4	TP05/D4	TP05/D4	TP04/D4
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.45	0.25	1.10	3.30	0.85	0.30	1.70	0.20
	Bottom Depth (m):				1.10	1.10	2.80	3.80	1.50	1.30	2.70	1.30
	Date Sampled:				31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022	31-May-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	240	480	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	3700	790	< 1.0	< 1.0	< 1.0	< 1.0	200
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	1600	21000	8800	< 1.0	< 1.0	< 1.0	< 1.0	1700
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	1100	410	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	1600	26000	11000	< 5.0	< 5.0	< 5.0	< 5.0	1900
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	1600	38000	87000	< 10	< 10	< 10	< 10	2000
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.71
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.2
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	3.9
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	5.0
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	51
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	22
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	130
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	130
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	67
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	68
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	76
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	31
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	66
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	38
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	9.5
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	34
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	740
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-20694		
Quotation No.:	Chemtest Sample ID.:		1441243		
	Sample Location:		TP04/D4		
	Sample Type:		SOIL		
	Top Depth (m):		1.30		
	Bottom Depth (m):		2.10		
	Date Sampled:		31-May-2022		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Moisture	N	2030	%	0.020	21
Soil Colour	N	2040		N/A	White
Other Material	N	2040		N/A	Stones
Soil Texture	N	2040		N/A	Clay
pH	M	2010		4.0	9.6
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.024
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	21
Arsenic	M	2455	mg/kg	0.5	0.6
Cadmium	M	2455	mg/kg	0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	1.5
Copper	M	2455	mg/kg	0.50	4.0
Mercury	M	2455	mg/kg	0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	1.6
Lead	M	2455	mg/kg	0.50	6.2
Selenium	M	2455	mg/kg	0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	1.5
Zinc	M	2455	mg/kg	0.50	29
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	4.2
Diesel Present	N	2670		N/A	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	220
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	220
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-20694		
Quotation No.:	Chemtest Sample ID.:		1441243		
	Sample Location:		TP04/D4		
	Sample Type:		SOIL		
	Top Depth (m):		1.30		
	Bottom Depth (m):		2.10		
	Date Sampled:		31-May-2022		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	420
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	420
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	640
Naphthalene	M	2700	mg/kg	0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	0.53
Anthracene	M	2700	mg/kg	0.10	0.19
Fluoranthene	M	2700	mg/kg	0.10	1.2
Pyrene	M	2700	mg/kg	0.10	1.3
Benzo[a]anthracene	M	2700	mg/kg	0.10	0.73
Chrysene	M	2700	mg/kg	0.10	0.81
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	0.74
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.43
Benzo[a]pyrene	M	2700	mg/kg	0.10	0.61
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	6.5
Total Phenols	M	2920	mg/kg	0.10	< 0.10

Results - Single Stage WAC

Project: 223159 Saunderton

Chemtest Job No: 22-20694					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1441237					Limits		
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: TP01/E5							
Top Depth(m): 1.10							
Bottom Depth(m): 2.80							
Sampling Date: 31-May-2022							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	13	3	5	6
Loss On Ignition	2610	M	%	23	--	--	10
Total BTEX	2760	M	mg/kg	0.24	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	87000	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		9.2	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0013	0.013	0.5	2	25
Barium	1455	U	< 0.005	< 0.0005	20	100	300
Cadmium	1455	U	0.00013	0.0013	0.04	1	5
Chromium	1455	U	0.0048	0.048	0.5	10	70
Copper	1455	U	0.0013	0.013	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0013	0.013	0.5	10	30
Nickel	1455	U	0.0027	0.027	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0005	0.5	10	50
Antimony	1455	U	0.0008	0.0084	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0005	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	4	50	200
Chloride	1220	U	< 1.0	< 10	800	15000	25000
Fluoride	1220	U	0.15	1.5	10	150	500
Sulphate	1220	U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020	N	35	340	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	< 2.5	< 50	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	23

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
22-20694	1441229	S	TP02/D3			0.25	Yes	Diesel
22-20694	1441235	S	TP02/D5			0.45	No	Lube Oil
22-20694	1441236	S	TP01/E5			0.25	No	Heavy Oil
22-20694	1441237	S	TP01/E5			1.10	No	Heavy Oil
22-20694	1441238	S	TP01/E5			3.30	No	Heavy Oil
22-20694	1441242	S	TP04/D4			0.20	No	PAH

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2185	Asbestos	Asbestos	Polarised light microscopy
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Test Methods

SOP	Title	Parameters included	Method summary
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Comment

E5TP01 verification area prior to excavation.

Project

223159 - Saunderton

Photo Plate

1

Date

28/06/2022

Originator

Kieran Evans



AA Environmental Limited

Units 4-8 Cholswell Court

Shippon, Abingdon

OX13 6HX

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www.aae-ltd.co.uk



Comment

E5/TP01 verification area during excavation, noting stained material was observed – potential contamination.

Project

223159 - Saunderton

Photo Plate

2

Date

28/06/2022

Originator

Kieran Evans



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Comment E5/TP01 stained material.	Project 223159 – Saunderton
	Photo Plate 3
	Date 28/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 excavation of potential contamination hotspot(s).

Project

223159 – Saunderton

Photo Plate

4

Date

28/06/2022

Originator

Kieran Evans



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**Comment**

E5/TP01 Hotspot 1.

Project

223159 – Saunderton

Photo Plate

5

Date

28/06/2022

Originator

Kieran Evans

**AA Environmental Limited**

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Comment

E5/TP01 V/B1.

Project

223159 – Saunderton

Photo Plate

6

Date

28/06/2022

Originator

Kieran Evans



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Comment

E5/TP01 V/B1 arisings – staining observed.

Project

223159 – Saunderton

Photo Plate

7

Date

28/06/2022

Originator

Kieran Evans



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Comment

E5/TP01 V/B2 sampling point (outlined in red).

Project

223159 – Saunderton

Photo Plate

8

Date

28/06/2022

Originator

Kieran Evans



AA Environmental Limited

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Comment E5/TP01 V/B2 natural material.	Project 223159 – Saunderton
	Photo Plate 9
	Date 28/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment E5/TP01 V/B3.	Project 223159 – Saunderton
	Photo Plate 10
	Date 29/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 V/B4.

Project

223159 – Saunderton

Photo Plate

11

Date

29/06/2022

Originator

Kieran Evans



AAe

AA Environmental Limited

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Comment E5/TP01 V/B4 arisings.	Project 223159 – Saunderton
	Photo Plate 12
	Date 29/06/22
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 V/E1 sampling area (outlined in red).

Project

223159 – Saunderton

Photo Plate

13

Date

28/06/2022

Originator

Kieran Evans



AA Environmental Limited

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Comment E5/TP01 V/E2.	Project 223159 – Saunderton
	Photo Plate 14
	Date 23/06/2022
	Originator Kieran Evans
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment E5/TP01 V/E3 (outlined in red).	Project 223159 – Saunderton
	Photo Plate 15
	Date 29/06/2022
	Originator Kieran Evans
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment E5/TP01 V/E3 arisings.	Project 223159 – Saunderton
	Photo Plate 16
	Date 29/06/22
	Originator Kieran Evans
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 V/E4.

Project

223159 – Saunderton

Photo Plate

17

Date

30/06/2022

Originator

Kieran Evans



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Comment E5/TP01 – view from V/E4 facing southwards.	Project 223159 – Saunderton
	Photo Plate 18
	Date 30/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment E5/TP01 V/N1.	Project 223159 – Saunderton
	Photo Plate 19
	Date 30/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment E5/TP01 view facing southwards from V/N1.	Project 223159 – Saunderton
	Photo Plate 20
	Date 30/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippin, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 V/S1.

Project

223159 – Saunderton

Photo Plate

21

Date

28/06/2022

Originator

Kieran Evans



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Comment

E5/TP01 V/S2 (outlined in red).

Project

223159 – Saunderton

Photo Plate

22

Date

30/06/2022

Originator

Kieran Evans



AAe

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#

Comment E5/TP01 V/S2 arisings.	Project 223159 – Saunderton
	Photo Plate 23
	Date 29/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 V/W1 (outlined in red).

Project

223159 – Saunderton

Photo Plate

24

Date

28/06/2022

Originator

Kieran Evans



AA Environmental Limited

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Comment

E5/TP01 V/W2.

Project

223159 – Saunderton

Photo Plate

25

Date

29/06/2022

Originator

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AA Environmental Limited

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Comment

E5/TP01 V/W3.

Project

223159 – Saunderton

Photo Plate

26

Date

29/06/2022

Originator

Kieran Evans



AA Environmental Limited

Units 4-8 Cholswell Court

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Comment E5/TP01 V/W4.	Project 223159 – Saunderton
	Photo Plate 27
	Date 29/06/2022
	Originator Kieran Evans
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

E5/TP01 V/W4 arisings

Project

223159 – Saunderton

Photo Plate

28

Date

30/06/2022

Originator

Kieran Evans



AA Environmental Limited

Units 4-8 Cholswell Court

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2183

Final Report

Report No.: 22-24545-1
Initial Date of Issue: 05-Jul-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 30-Jun-2022

Order No.: **Date Instructed:** 30-Jun-2022

No. of Samples: 10

Turnaround (Wkdays): 4 **Results Due:** 05-Jul-2022

Date Approved: 05-Jul-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.: 22-24545 22-24545 22-24545 22-24545 22-24545 22-24545 22-24545 22-24545 22-24545 22-24545											
Quotation No.:	Chemtest Sample ID.: 1458519 1458520 1458521 1458522 1458523 1458524 1458525 1458526 1458527											
Order No.:	Client Sample Ref.: E5/TP01 E5/TP01 E5/TP01 E5/TP01 E5/TP01 E5/TP01 D6/TP03 D6/TP03 D6/TP03											
	Client Sample ID.: V/B1 V/B2 V/B3 V/E1 V/E2 V/W1 V/B1 V/V/S V/V/E											
	Sample Type: SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL											
	Date Sampled: 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022 28-Jun-2022											
	Asbestos Lab: COVENTRY COVENTRY COVENTRY											
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192		N/A							-	-
Asbestos Identification	U	2192		N/A							No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	17	18	16	19	13	18	15	18
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	5.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	23	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	86	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	430	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	2300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	2900	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	750	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	3600	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Chloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromomethane	U	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20			
Chloroethane	U	2760	µg/kg	2.0	8.8	< 2.0	2.7	< 2.0	< 2.0	31		
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1-Dichloroethene	U	2760	µg/kg	1.0	260	< 1.0	150	< 1.0	< 1.0			
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
Trichloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	170	< 1.0	64	< 1.0	< 1.0	220		
Tetrachloromethane	U	2760	µg/kg	1.0	180	< 1.0	65	< 1.0	< 1.0	200		
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-24545	22-24545	22-24545	22-24545	22-24545	22-24545	22-24545	22-24545	
Quotation No.:	Chemtest Sample ID.:				1458519	1458520	1458521	1458522	1458523	1458524	1458525	1458526	1458527
Order No.:	Client Sample Ref.:				E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01	D6/TP03	D6/TP03	D6/TP03
	Client Sample ID.:				V/B1	V/B2	V/B3	V/E1	V/E2	V/W1	V/B1	V/VS	V/VE
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				28-Jun-2022	28-Jun-2022	28-Jun-2022	28-Jun-2022	28-Jun-2022	28-Jun-2022	28-Jun-2022	28-Jun-2022	28-Jun-2022
	Asbestos Lab:										COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.2		
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Dibromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6		
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8		
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	3.7		
o-Xylene	U	2760	µg/kg	1.0	2.6	< 1.0	4.6	< 1.0	< 1.0	< 1.0	< 1.0		
Styrene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Bromobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:									
Quotation No.:	Chemtest Sample ID.:									
Order No.:	Client Sample Ref.:									
	Client Sample ID.:									
	Sample Type:									
	Date Sampled:									
	Asbestos Lab:									
Determinand	Accred.	SOP	Units	LOD						
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
N-Nitrosodimethylamine	U	2790	mg/kg	0.50						
Phenol	U	2790	mg/kg	0.50						
2-Chlorophenol	U	2790	mg/kg	0.50						
Bis-(2-Chloroethyl)Ether	U	2790	mg/kg	0.50						
1,3-Dichlorobenzene	U	2790	mg/kg	0.50						
1,4-Dichlorobenzene	N	2790	mg/kg	0.50						
1,2-Dichlorobenzene	U	2790	mg/kg	0.50						
2-Methylphenol	U	2790	mg/kg	0.50						
Bis(2-Chloroisopropyl)Ether	U	2790	mg/kg	0.50						
Hexachloroethane	N	2790	mg/kg	0.50						
N-Nitrosodi-n-propylamine	U	2790	mg/kg	0.50						
4-Methylphenol	U	2790	mg/kg	0.50						
Nitrobenzene	U	2790	mg/kg	0.50						
Isophorone	U	2790	mg/kg	0.50						
2-Nitrophenol	N	2790	mg/kg	0.50						
2,4-Dimethylphenol	N	2790	mg/kg	0.50						
Bis(2-Chloroethoxy)Methane	U	2790	mg/kg	0.50						
2,4-Dichlorophenol	U	2790	mg/kg	0.50						
1,2,4-Trichlorobenzene	U	2790	mg/kg	0.50						
Naphthalene	U	2790	mg/kg	0.50						
4-Chloroaniline	N	2790	mg/kg	0.50						
Hexachlorobutadiene	U	2790	mg/kg	0.50						
4-Chloro-3-Methylphenol	U	2790	mg/kg	0.50						
2-Methylnaphthalene	U	2790	mg/kg	0.50						
4-Nitrophenol	N	2790	mg/kg	0.50						
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50						
2,4,6-Trichlorophenol	U	2790	mg/kg	0.50						
2,4,5-Trichlorophenol	U	2790	mg/kg	0.50						
2-Chloronaphthalene	U	2790	mg/kg	0.50						
2-Nitroaniline	U	2790	mg/kg	0.50						
Acenaphthylene	U	2790	mg/kg	0.50						
Dimethylphthalate	U	2790	mg/kg	0.50						
2,6-Dinitrotoluene	U	2790	mg/kg	0.50						
Acenaphthene	U	2790	mg/kg	0.50						
3-Nitroaniline	N	2790	mg/kg	0.50						
Dibenzofuran	U	2790	mg/kg	0.50						
4-Chlorophenylphenylether	U	2790	mg/kg	0.50						
2,4-Dinitrotoluene	U	2790	mg/kg	0.50						

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:									
Quotation No.:	Chemtest Sample ID.:									
Order No.:	Client Sample Ref.:									
	Client Sample ID.:									
	Sample Type:									
	Date Sampled:									
	Asbestos Lab:									
Determinand	Accred.	SOP	Units	LOD						
Fluorene	U	2790	mg/kg	0.50						
Diethyl Phthalate	U	2790	mg/kg	0.50						
4-Nitroaniline	U	2790	mg/kg	0.50						
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50						
Azobenzene	U	2790	mg/kg	0.50						
4-Bromophenylphenyl Ether	U	2790	mg/kg	0.50						
Hexachlorobenzene	U	2790	mg/kg	0.50						
Pentachlorophenol	N	2790	mg/kg	0.50						
Phenanthrene	U	2790	mg/kg	0.50						
Anthracene	U	2790	mg/kg	0.50						
Carbazole	U	2790	mg/kg	0.50						
Di-N-Butyl Phthalate	U	2790	mg/kg	0.50						
Fluoranthene	U	2790	mg/kg	0.50						
Pyrene	U	2790	mg/kg	0.50						
Butylbenzyl Phthalate	U	2790	mg/kg	0.50						
Benzo[a]anthracene	U	2790	mg/kg	0.50						
Chrysene	U	2790	mg/kg	0.50						
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50						
Di-N-Octyl Phthalate	U	2790	mg/kg	0.50						
Benzo[b]fluoranthene	U	2790	mg/kg	0.50						
Benzo[k]fluoranthene	U	2790	mg/kg	0.50						
Benzo[a]pyrene	U	2790	mg/kg	0.50						
Indeno(1,2,3-c,d)Pyrene	U	2790	mg/kg	0.50						
Dibenz(a,h)Anthracene	U	2790	mg/kg	0.50						
Benzo[g,h,i]perylene	U	2790	mg/kg	0.50						

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-24545		
Quotation No.:	Chemtest Sample ID.:		1458528		
Order No.:	Client Sample Ref.:		E5/TP01		
	Client Sample ID.:		Hotspot 1		
	Sample Type:		SOIL		
	Date Sampled:		28-Jun-2022		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	
Asbestos Identification	U	2192		N/A	
Moisture	N	2030	%	0.020	29
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	92
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	2700
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	2800
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	2900
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	3400
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	9900
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	90000
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	110000
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	580
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	7000
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	3500
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	3500
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	1400
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	6400
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	940
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	23000
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	130000
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	27
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20
Chloroethane	U	2760	µg/kg	2.0	2100
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	5000
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	8300000
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	49
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	18000000
Tetrachloromethane	U	2760	µg/kg	1.0	16000000
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	130

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-24545		
Quotation No.:	Chemtest Sample ID.:		1458528		
Order No.:	Client Sample Ref.:		E5/TP01		
	Client Sample ID.:		Hotspot 1		
	Sample Type:		SOIL		
	Date Sampled:		28-Jun-2022		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
1,2-Dichloroethane	U	2760	µg/kg	2.0	40000
Trichloroethene	N	2760	µg/kg	1.0	22
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
Toluene	U	2760	µg/kg	1.0	37000
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	1900
Tetrachloroethene	U	2760	µg/kg	1.0	230000
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	290000
m & p-Xylene	U	2760	µg/kg	1.0	680000
o-Xylene	U	2760	µg/kg	1.0	130000
Styrene	U	2760	µg/kg	1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	280
Bromobenzene	U	2760	µg/kg	1.0	10000
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	1100
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	120
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	190
Sec-Butylbenzene	U	2760	µg/kg	1.0	190
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	120
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	210
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-24545		
Quotation No.:	Chemtest Sample ID.:		1458528		
Order No.:	Client Sample Ref.:		E5/TP01		
	Client Sample ID.:		Hotspot 1		
	Sample Type:		SOIL		
	Date Sampled:		28-Jun-2022		
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0
N-Nitrosodimethylamine	U	2790	mg/kg	0.50	< 0.50
Phenol	U	2790	mg/kg	0.50	18
2-Chlorophenol	U	2790	mg/kg	0.50	< 0.50
Bis-(2-Chloroethyl)Ether	U	2790	mg/kg	0.50	< 0.50
1,3-Dichlorobenzene	U	2790	mg/kg	0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50
1,2-Dichlorobenzene	U	2790	mg/kg	0.50	< 0.50
2-Methylphenol	U	2790	mg/kg	0.50	5.2
Bis(2-Chloroisopropyl)Ether	U	2790	mg/kg	0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.50	< 0.50
N-Nitrosodi-n-propylamine	U	2790	mg/kg	0.50	< 0.50
4-Methylphenol	U	2790	mg/kg	0.50	110
Nitrobenzene	U	2790	mg/kg	0.50	< 0.50
Isophorone	U	2790	mg/kg	0.50	< 0.50
2-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.50	28
Bis(2-Chloroethoxy)Methane	U	2790	mg/kg	0.50	< 0.50
2,4-Dichlorophenol	U	2790	mg/kg	0.50	< 0.50
1,2,4-Trichlorobenzene	U	2790	mg/kg	0.50	< 0.50
Naphthalene	U	2790	mg/kg	0.50	1.5
4-Chloroaniline	N	2790	mg/kg	0.50	< 0.50
Hexachlorobutadiene	U	2790	mg/kg	0.50	< 0.50
4-Chloro-3-Methylphenol	U	2790	mg/kg	0.50	1.9
2-Methylnaphthalene	U	2790	mg/kg	0.50	2.0
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50
2,4,6-Trichlorophenol	U	2790	mg/kg	0.50	< 0.50
2,4,5-Trichlorophenol	U	2790	mg/kg	0.50	< 0.50
2-Chloronaphthalene	U	2790	mg/kg	0.50	< 0.50
2-Nitroaniline	U	2790	mg/kg	0.50	1.2
Acenaphthylene	U	2790	mg/kg	0.50	< 0.50
Dimethylphthalate	U	2790	mg/kg	0.50	8.8
2,6-Dinitrotoluene	U	2790	mg/kg	0.50	< 0.50
Acenaphthene	U	2790	mg/kg	0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50
Dibenzofuran	U	2790	mg/kg	0.50	1.3
4-Chlorophenylphenylether	U	2790	mg/kg	0.50	< 0.50
2,4-Dinitrotoluene	U	2790	mg/kg	0.50	< 0.50

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.: 22-24545				
Quotation No.:	Chemtest Sample ID.: 1458528				
Order No.:	Client Sample Ref.: E5/TP01				
	Client Sample ID.: Hotspot 1				
	Sample Type: SOIL				
	Date Sampled: 28-Jun-2022				
	Asbestos Lab:				
Determinand	Accred.	SOP	Units	LOD	
Fluorene	U	2790	mg/kg	0.50	< 0.50
Diethyl Phthalate	U	2790	mg/kg	0.50	1.1
4-Nitroaniline	U	2790	mg/kg	0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.50	< 0.50
Azobenzene	U	2790	mg/kg	0.50	0.81
4-Bromophenylphenyl Ether	U	2790	mg/kg	0.50	< 0.50
Hexachlorobenzene	U	2790	mg/kg	0.50	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.50	< 0.50
Phenanthrene	U	2790	mg/kg	0.50	6.0
Anthracene	U	2790	mg/kg	0.50	1.4
Carbazole	U	2790	mg/kg	0.50	1.4
Di-N-Butyl Phthalate	U	2790	mg/kg	0.50	< 0.50
Fluoranthene	U	2790	mg/kg	0.50	2.4
Pyrene	U	2790	mg/kg	0.50	< 0.50
Butylbenzyl Phthalate	U	2790	mg/kg	0.50	2.9
Benzo[a]anthracene	U	2790	mg/kg	0.50	0.98
Chrysene	U	2790	mg/kg	0.50	2.2
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50
Di-N-Octyl Phthalate	U	2790	mg/kg	0.50	2.2
Benzo[b]fluoranthene	U	2790	mg/kg	0.50	< 0.50
Benzo[k]fluoranthene	U	2790	mg/kg	0.50	< 0.50
Benzo[a]pyrene	U	2790	mg/kg	0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	U	2790	mg/kg	0.50	< 0.50
Dibenz(a,h)Anthracene	U	2790	mg/kg	0.50	< 0.50
Benzo[g,h,i]perylene	U	2790	mg/kg	0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



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Final Report

Report No.: 22-24772-1
Initial Date of Issue: 05-Jul-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Sunderton

Quotation No.: **Date Received:** 01-Jul-2022

Order No.: **Date Instructed:** 01-Jul-2022

No. of Samples: 7

Turnaround (Wkdays): 3 **Results Due:** 05-Jul-2022

Date Approved: 05-Jul-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Sunderton

Client: AA Environmental Ltd		Chemtest Job No.:			22-24772	22-24772	22-24772	22-24772	22-24772	22-24772	22-24772
Quotation No.:		Chemtest Sample ID.:			1459343	1459344	1459345	1459346	1459347	1459348	1459349
Order No.:		Client Sample Ref.:			E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01
		Client Sample ID.:			V/W2	V/W3	V/W4	V/S1	V/S2	V/B4	V/E3
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022
Determinand	Accred.	SOP	Units	LOD							
Moisture	N	2030	%	0.020	16	22	11	19	13	20	18
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.5	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	14	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.1	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	210	39	< 1.0	5.3	55	13
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	210	39	< 5.0	35	55	13
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	180	27	26
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	32	17	< 1.0	1700	990	1000
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	37	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	32	17	< 5.0	1900	1000	1000
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	240	56	< 10	2000	1100	1100
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Sunderton

Client: AA Environmental Ltd		Chemtest Job No.:		22-24772	22-24772	22-24772	22-24772	22-24772	22-24772	22-24772
Quotation No.:		Chemtest Sample ID.:		1459343	1459344	1459345	1459346	1459347	1459348	1459349
Order No.:		Client Sample Ref.:		E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01	E5/TP01
		Client Sample ID.:		V/W2	V/W3	V/W4	V/S1	V/S2	V/B4	V/E3
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:		29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022	29-Jun-2022
Determinand	Accred.	SOP	Units	LOD						
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Amended Report

Report No.:	22-24961-5		
Initial Date of Issue:	06-Jul-2022	Date of Re-Issue:	07-Jul-2022
Client	AA Environmental Ltd		
Client Address:	Units 4 to 8 Cholswell Court Shippon Abingdon Oxfordshire OX136HX		
Contact(s):	Reporting		
Project	223159 Saunderton		
Quotation No.:		Date Received:	04-Jul-2022
Order No.:		Date Instructed:	04-Jul-2022
No. of Samples:	2		
Turnaround (Wkdays):	3	Results Due:	06-Jul-2022
Date Approved:	06-Jul-2022		
Approved By:			



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-24961	22-24961
Quotation No.:	Chemtest Sample ID.:				1460377	1460378
Order No.:	Client Sample Ref.:				E5/TP01	E5/TP01
	Client Sample ID.:				V/N1	V/E4
	Sample Type:				SOIL	SOIL
	Date Sampled:				30-Jun-2022	30-Jun-2022
Determinand	Accred.	SOP	Units	LOD		
Moisture	N	2030	%	0.020	9.6	4.2
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	430	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	430	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	7.7	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	7.7	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	430	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-24961	22-24961
Quotation No.:	Chemtest Sample ID.:				1460377	1460378
Order No.:	Client Sample Ref.:				E5/TP01	E5/TP01
	Client Sample ID.:				V/N1	V/E4
	Sample Type:				SOIL	SOIL
	Date Sampled:				30-Jun-2022	30-Jun-2022
Determinand	Accred.	SOP	Units	LOD		
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0	< 1.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Results - Soil

[illegible]

Results - Soil

[illegible]

REMEDIAL TARGET CONCENTRATIONS

1.1 RPS (2010) Remedial Target Concentrations

RPS previously derived Remedial Target Concentrations (RTCs) for soil protective of both human health and controlled waters.^{1 2} The Soil RTCs are based on the result of qualitative and quantitative assessment of the soil quality dataset and QRA for controlled waters.

1.2 Updated Remedial Target Concentrations

Ramboll has derived updated Remedial Target Concentrations have been updated for the soil and are protective of human health taking into account updated physical-chemical and toxicologic data for the relevant compounds.

Remedial criteria have been derived for specific land-use at the site post development, based on the proposed development layout presented for *Hardstanding and buildings* and *soft landscaping areas*. For the soft landscaping areas it has been assumed that there is the potential for public access, due to the extent of the landscaped areas, and therefore both commercial end use standards and public open space standards have been taken into consideration.

The original Remedial Targets also included Controlled Water targets for soil for TPH Aromatic 10-12 and TPH Aromatic 12-16, as such these have been carried forward and applied in the updated Remedial Target Values to protect Controlled Waters.

The combined RTCs for areas of hardstanding and areas of soft landscaping are summarised Table 1.1 below.

¹ RPS, QUANTITATIVE RISK ASSESSMENT, SAUNDERTON DATA CENTRE, NOVEMBER 2010, Ref: BES0131R101117AGQRA

² RPS, SITE REMEDIATION STRATEGY, SAUNDERTON DATA CENTRE, NOVEMBER 2010, Ref: BES0131

Table 1.1. Updated Remedial Target Concentrations						
Determinand	Hardstanding and Buildings			Soft Landscaping Areas		
	Source of RPS RTC	Previous Target Level (mg / kg)	Updated Hardstanding Target Level* (mg / kg)	Source of RPS RTC	Target Level (mg / kg)	Updated Landscaping Target Level* (mg / kg)
Benzene	SGV (Industrial)	95	15	GAC (Industrial)	95	15"
Toluene	SGV (Industrial)	4,400	33,000	GAC (Industrial)	4,400	33,000"
Ethylbenzene	SGV (Industrial)	2,800	3,200	GAC (Industrial)	2,800	3,200"
o-xylene	SGV (Industrial)	2,600	3,700	GAC (Industrial)	2,600	3,700"
m-xylene	SGV (Industrial)	3,500	3,400	GAC (Industrial)	3,500	3,400"
p-xylene	SGV (Industrial)	3,200	3,300	GAC (Industrial)	3,200	3,300"
Aliphatic C5-6	GAC (Industrial)	3,400	2,400	GAC (Industrial)	3,400	2,400"
Aliphatic C6-8	GAC (Industrial)	8,300	5,300	GAC (Industrial)	8,300	5,300"
Aliphatic C8-10	GAC (Industrial)	2,100	1,300	GAC (Industrial)	2,100	1,300"
Aliphatic C10-12	GAC (Industrial)	10,000	6,100	GAC (Industrial)	10,000	6,100"
Aliphatic C12-16	GAC (Industrial)	61,000	43,000	GAC (Industrial)	61,000	23,000"

Table 1.1. Updated Remedial Target Concentrations						
Aliphatic C16-35	GAC (Industrial)	-	1,000,000	GAC (Industrial)	1,600,000	410,000
Aliphatic C35-44	GAC (Industrial)	-	1,000,000	GAC (Industrial)	1,600,000	410,000
Aromatic C5-7	GAC (Industrial)	28,000	15	GAC (Industrial)	28,000	15"
Aromatic C7-8	GAC (Industrial)	59,000	33000	GAC (Industrial)	59,000	33,000"
Aromatic C8-10	GAC (Industrial)	3,700	2,200	GAC (Industrial)	3,700	2,200"
Aromatic C10-12	Controlled Waters	10,000 [425]	425^	Controlled Waters	17,000	425^
Aromatic C12-16	Controlled Waters	1,900 [1,900]	1,900^	Controlled Waters	36,000	1,900^
Aromatic C16-21	GAC (Industrial)	-	29,000	GAC (Industrial)	28,000	7,900
Aromatic C21-35	GAC (Industrial)	-	29,000	GAC (Industrial)	28,000	7,900
Aromatic C35-44	GAC (Industrial)	-	29,000	GAC (Industrial)	28,000	7,900
Acenaphthene	-	-	75,000	GAC (Industrial)	85,000	28,000
Acenaphthylene	-	-	76,000	GAC (Industrial)	84,000	28,000
Anthracene	-	-	520,000	GAC (Industrial)	530,000	150,000
Benzo(a)anthracene	-	-	BaP Surrogate	GAC (Industrial)	90	BaP Surrogate
Benzo(a)pyrene	-	-	76	GAC (Industrial)	14	21
Benzo(b)fluoranthene	-	-	BaP Surrogate	GAC (Industrial)	100	BaP Surrogate

Table 1.1. Updated Remedial Target Concentrations

Benzo(ghi)perylene	-	-	BaP Surrogate	GAC (Industrial)	650	BaP Surrogate
Benzo(k)fluoranthene	-	-	BaP Surrogate	GAC (Industrial)	140	BaP Surrogate
Chrysene	-	-	BaP Surrogate	GAC (Industrial)	140	BaP Surrogate
Dibenzo(ah)anthracene	-	-	BaP Surrogate	GAC (Industrial)	13	BaP Surrogate
Fluoranthene	-	-	23,000	GAC (Industrial)	23	6,300
Fluorene	-	-	60,000	GAC (Industrial)	64,000	19,000
Indeno(123-cd)pyrene	-	-	BaP Surrogate	GAC (Industrial)	60	BaP Surrogate
Naphthalene	GAC (Industrial)	200	110	GAC (Industrial)	200	110"
Phenanthrene	-	-	22,000	GAC (Industrial)	22,000	6,200
Pyrene	-	-	54000	GAC (Industrial)	54,000	15,000
Asbestos	NA	No Identifiable Asbestos	No Quantifiable Asbestos over the Hazardous Waste Threshold (0.1%)	NA	No Identifiable Asbestos	No Quantifiable Asbestos over the Hazardous Waste Threshold (0.1%)

Notes:

* Updated Hardstanding Guideline Assessment Criteria are based on Ramboll GACs for Commercial/Industrial end use. These are based on the standard GAC scenario for Commercial/Industrial with 1% Soil Organic Matter in a Sand. The phys-chem and toxicological data is taken from a range of literature sources including the Environment Agency Science Report documents, LQM's S4UL publication, CLAIRE documentation and other relevant published literature sources.

& Updated Landscaping Guideline Assessment Criteria are based on Ramboll GACs for Public Open Space 2. These are based on the standard GAC scenario for Public Open Space 2 with 1% Soil Organic Matter in a Sand. It is noted that where the Commercial/Industrial GAC is more stringent, this value has been adopted for Landscaped areas as a precautionary approach (marked as ").

Benzene and Benzo(a)pyrene GACs are based on the C4SL approach and toxicity assessment for Low Level of Concern, the remaining contaminants are based on Minimal Risk toxicology assessment.

TPH Aromatic 5-7 and TPH Aromatic 7-8 are assumed to be equivalent to benzene and toluene, and as such the GACs for these compounds have been applied to the relevant TPH Carbon chains.

^ values are based on original remedial targets, based on protection of Controlled Waters

Proforma B – Hot Spot/Unexpected Contamination Characteristics

Site	SAUNDERTON DATA CENTRE, HAW LANE	Grid Reference(s)	B4
Plan reference	B4/TP01 Hotspot Excavation & Validation	Proforma B Reference	B/003
Contaminant(s) of concern	B4/TP01 Hydrocarbon/VOC hotspot extending below formation level (125m AOD)	Health and safety risk	Vapour.

1. Investigation of area – Source characterisation

Date	Investigation Reference(s)	Results / Comments
30/06/14 & 11/07/14	Hydrock TP301	Original identification of hydrocarbon by Hydrock. Described as Made Ground with 'Traces of tarry material'. I2 Analytical Reports: 14-56938 & 14-05731.
05/07/22	AAe B4/TP01 trial pit.	Organic/hydrocarbon staining observed in the Made Ground sand (plus in underlying natural Chalk to 1.70 m bgl). Suspected below ground passageway noted 0.2-0.5 m bgl. Chemtest Eurofins Report: 22-25607
25/07/22	Sampling of hotspot during excavation	Sampling of visible black stained material as 'S1' sample. Confirmed presence of chlorinated solvents. Chemtest Eurofins Report: 22-28163

2a. Evidence of decontamination/removal

Plan Reference showing extent of removal	Results (link to report numbers)	Estimated volume	Date
B4/TP01 Hotspot Excavation & Validation	22-29535	TBC – Final volume to be confirmed by Enterprise.	03/08/22
Total estimated volume removed	TBC		
Comments AAe sampled base and sides of excavation. Excavation terminated at approximately 123 m AOD (2 m below formation level). All TPH results were below laboratory limits of detection. Concentrations of VOC were recorded in one delineation sample above laboratory limits of detection. There are no exceedances against the Ramboll Remedial Target Concentrations (RTCs). Consolidated data table attached.			
Volume removed	TBC		

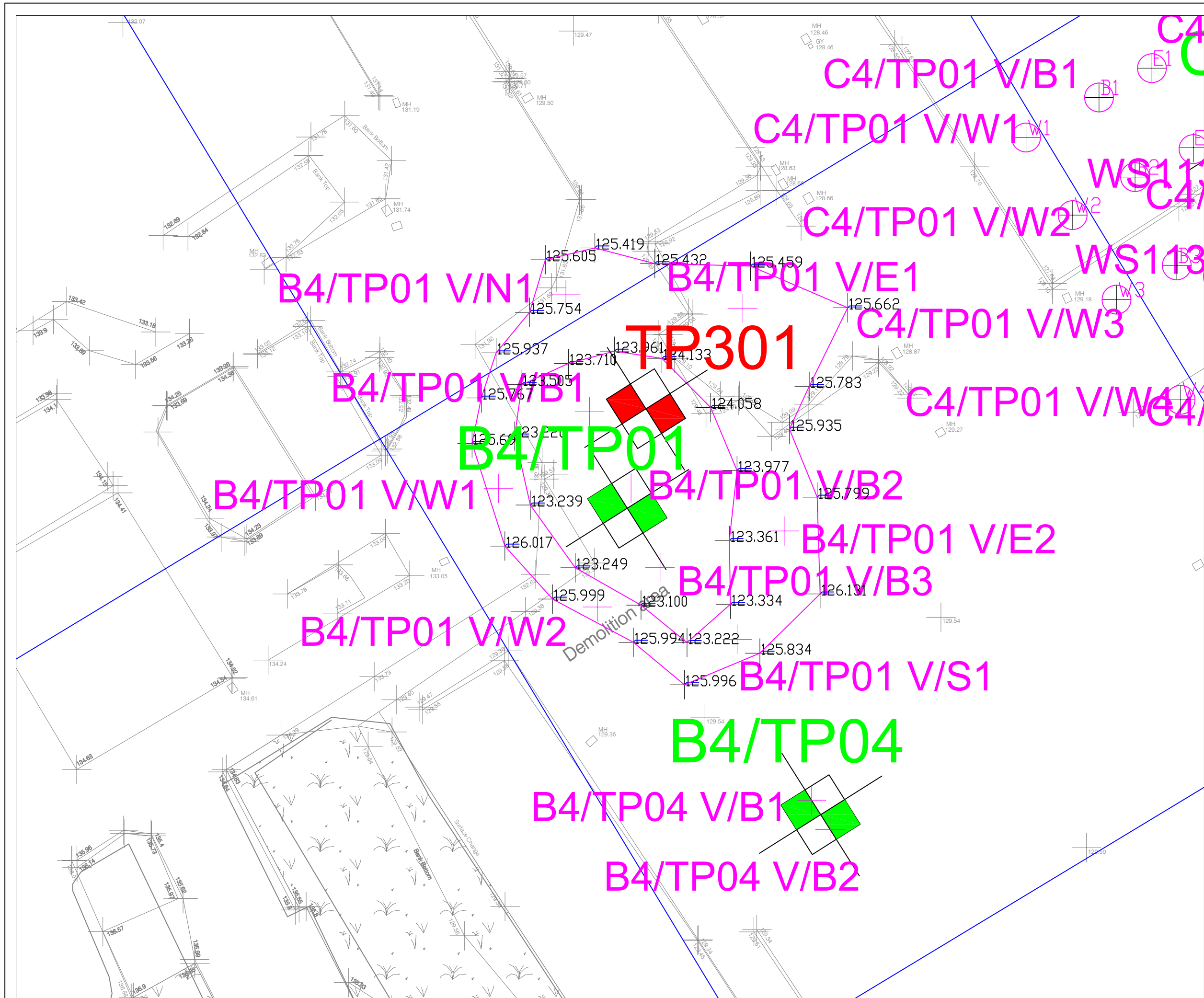
2b. Details of imported fill

N/A – Reinstatement with site-won acceptable natural uncontaminated subsoils (chalk). Enterprise to confirm source grid square(s).

2c. Topographical survey showing reinstatement levels

Survey Drawing Reference	Surveyor
--------------------------	----------

Sign off	Name	Signature	Date
	J Taylor		29/11/22 (FINAL)



Rev.	Details	Drawn Chkd.	Date
Project 223159 Saunderton			
Title Hazardous Delineaton Plan B4/TP01 Hotspot Excavation & Validaton			
 AAe Environmental Consultants AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T:(01235) 536042 F:(01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk			
Scale 1:250(A3)	Date Oct '22	Drng. No. 223159/B4_TP1/01	Rev.
Drawn CAL	Chkd. ML		

Method: Trial Pit			Date: 30/06/2014		Logged By: MO		Checked By: <i>AT</i>	
Client: St. Congar			Co-Ords: 480711.20, 198457.50		Pit Stability: stable		Dimensions: 3.00m 1.00m	
Hydrock Project No: C13649			Elevation: 129.46mAOD		Plant: 20T excavator			
Samples and In Situ Testing			Groundwater	Stratum Description	Depth mbgl	Thickness (m)	Level mAOD	Legend
Depth (m)	Type	Results						
				Brickwork. (MADE GROUND)	0.60	(0.60)	128.66	
0.65	E			MADE GROUND comprising dark medium to coarse sand size ash, with much subangular medium to coarse gravel of chalk. Traces of tarry material. (MADE GROUND)	0.70	(0.10)	128.76	
0.80-1.00 0.80	B E							
1.00	E			Mainly weak medium density white CHALK recovered as gravel size fragments. Brown staining and black speckling on fracture surfaces. Block size 40/100/150 at 3.0m. Grade B4 becoming grade B3. (MIDDLE CHALK)				
1.60	B							
2.20 2.20	B E							
3.10	B							
				End of Trial Pit at 3.20 m	3.20		128.26	

General Remarks:

1. No groundwater encountered
2. Trial pit backfilled with arisings and compacted with excavator bucket.
3. Tarry material observed in Made Ground.



Trial Pit Log

TrialPit No
B4/TP01
Sheet 1 of 1

Project Name: Saunderton Data Centre

Project No.
223159

Co-ords: -
Level:

Date
05/07/2022

Location: Former Molins Site, Haw Lane, Saunderton, HP14 4JG (approx)

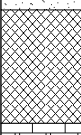
Dimensions (m): 3.00

Scale
1:20

Client: Avalon/Ramboll

Depth
2.90

Logged
KE

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20 - 0.50	ES		0.20			CONCRETE.	
	0.50 - 1.70	ES		0.50			Grey, cobbly, gravelly SAND. Cobbles of angular to sub-angular concrete, brick, and chalk. Gravels are fine to coarse, angular to sub-angular concrete, brick and chalk. Sand is fine to coarse. Suspected below ground passageway. Organic/hydrocarbon staining throughout (MADE GROUND).	
							Brownish-grey, cobbly, gravelly, SAND. Cobbles of angular to sub-angular chalk. Gravels are fine to coarse, angular to sub-angular of chalk. Organic/hydrocarbon staining throughout (NEW PIT CHALK FORMATION).	1
				1.70				
	2.50 - 2.90	ES					Brownish-grey, cobbly, gravelly, SAND. Cobbles of angular to sub-angular chalk. Gravels are fine to coarse, angular to sub-angular of chalk. Sand is fine to coarse (NEW PIT CHALK FORMATION).	2
				2.90				
							End of Pit at 2.90m	3
								4

Remarks: Trial pit was constructed by a tracked 360 excavator. No groundwater was encountered. Suspected hydrocarbon/organic staining encountered between 0.20 m - 1.70 m BGL.

Stability: Stable. On completion of logging and sampling, trial pit was backfilled with arisings in order of sequence and compacted. Suspected below ground passageway encountered between 0.20 - 0.50 m BGL.





Comment

Trial pit B4/TP01, excavated to 2.90 m Below Ground Level (m BGL) - suspected below ground passageway observed.

Project

223159 - Saunderton

Photo Plate

1

Date

05/07/2022

Originator

Kieran Evans



AA Environmental Limited

Units 4-8 Cholswell Court
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Comment

B4/TP01 Made Ground arisings.

Project

223159 - Saunderton

Photo Plate

2

Date

05/07/2022

Originator

Kieran Evans



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Comment B4/TP01 natural arisings – noticeable staining.	Project 223159 – Saunderton
	Photo Plate 3
	Date 05/07/2022
	Originator Kieran Evans
	AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

B4/TP01 natural arisings.

Project

223159 – Saunderton

Photo Plate

4

Date

05/07/2022

Originator

Kieran Evans



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Comment

B4/TP01 – Material sampled as 'S1'

Project

223159 - Saunderton

Photo Plate

1

Date

25/07/2022

Originator

Jack Taylor


AA Environmental Limited

Units 4-8 Cholswell Court

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Comment

B4/TP01 – Material sampled as ‘S1’

Project

223159 - Saunderton

Photo Plate

2

Date

25/07/2022

Originator

Jack Taylor



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Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353858	353859	353860	353861	353863
Sample Reference				TP301	TP302	TP303	TP304	TP305
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.65	0.35	0.70-0.80	0.35	0.40
Date Sampled				30/06/2014	30/06/2014	30/06/2014	30/06/2014	30/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	20	22	16	3.8	16
Total mass of sample received	kg	0.001	NONE	1.1	1.5	0.99	1.2	1.2
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected

General Inorganics

pH	pH Units	N/A	MCERTS	7.7	8.7	9.9	11.7	9.6
Free Cyanide	mg/kg	1	NONE	< 1	< 1	< 1	< 1	< 1
Water Soluble Sulphate (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.16	0.024	0.081	0.0059	0.27
Water Soluble Sulphate (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	163	24.4	80.7	5.9	272
Fraction Organic Carbon (FOC)	N/A	0.00001	NONE	0.032	0.0006	0.0018	0.0017	0.0022

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.24	< 0.10
Fluorene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.20	< 0.10
Phenanthrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	3.1	0.27
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.73	< 0.10
Fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	3.1	0.83
Pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	2.4	0.67
Benzo(a)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	1.1	0.35
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	1.3	0.48
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.88	< 0.10
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.59	< 0.10
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	0.67	0.21
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.60	< 1.60	< 1.60	14.4	2.82
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	35	< 1.0	< 1.0	16	< 1.0
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.7	< 0.1	< 0.1	0.1	< 0.1
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	< 0.2	0.3	2.1	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.9	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	16	1.1	< 1.0	17	1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	1.1	< 1.0	17	1.2
Copper (aqua regia extractable)	mg/kg	1	MCERTS	77	6.7	4.7	23	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	47	< 1.0	< 1.0	32	2.9
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	0.4	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	52	4.9	2.4	17	3.6
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	2.7	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	59	2.7	2.3	26	2.2
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	220	12	8.4	41	15



Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353858	353859	353860	353861	353863
Sample Reference				TP301	TP302	TP303	TP304	TP305
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.65	0.35	0.70-0.80	0.35	0.40
Date Sampled				30/06/2014	30/06/2014	30/06/2014	30/06/2014	30/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	42	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	190	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35	mg/kg	10	NONE	240	< 10	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	42	< 8.4	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	28	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	270	< 10	-	-	-
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	320	< 8.4	-	-	-



Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353858	353859	353860	353861	353863
Sample Reference				TP301	TP302	TP303	TP304	TP305
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.65	0.35	0.70-0.80	0.35	0.40
Date Sampled				30/06/2014	30/06/2014	30/06/2014	30/06/2014	30/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	4	ISO 17025	-	-	-	< 4.0	< 4.0
Chloroethane	µg/kg	2	ISO 17025	-	-	-	< 2.0	< 2.0
Bromomethane	µg/kg	6	ISO 17025	-	-	-	< 6.0	< 6.0
Vinyl Chloride	µg/kg	24	ISO 17025	-	-	-	< 24	< 24
Trichlorofluoromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	< 5.0
1,1-dichloroethene	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	7	ISO 17025	-	-	-	< 7.0	< 7.0
Cis-1,2-dichloroethene	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-dichloroethane	µg/kg	6	MCERTS	-	-	-	< 6.0	< 6.0
2,2-Dichloropropane	µg/kg	6	NONE	-	-	-	< 6.0	< 6.0
Trichloromethane	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
1,1,1-Trichloroethane	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
1,2-dichloroethane	µg/kg	4	MCERTS	-	-	-	< 4.0	< 4.0
1,1-Dichloropropene	µg/kg	7	NONE	-	-	-	< 7.0	< 7.0
Trans-1,2-dichloroethene	µg/kg	7	NONE	-	-	-	< 7.0	< 7.0
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
1,2-dichloropropane	µg/kg	6	MCERTS	-	-	-	< 6.0	< 6.0
Trichloroethene	µg/kg	6	MCERTS	-	-	-	< 6.0	< 6.0
Dibromomethane	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
Bromodichloromethane	µg/kg	7	NONE	-	-	-	< 7.0	< 7.0
Cis-1,3-dichloropropene	µg/kg	7	ISO 17025	-	-	-	< 7.0	< 7.0
Trans-1,3-dichloropropene	µg/kg	8	ISO 17025	-	-	-	< 8.0	< 8.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	8	ISO 17025	-	-	-	< 8.0	< 8.0
Dibromochloromethane	µg/kg	2	ISO 17025	-	-	-	< 2.0	< 2.0
Tetrachloroethene	µg/kg	8	MCERTS	-	-	-	< 8.0	< 8.0
1,2-Dibromoethane	µg/kg	3	ISO 17025	-	-	-	< 3.0	< 3.0
Chlorobenzene	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
1,1,1,2-Tetrachloroethane	µg/kg	4	NONE	-	-	-	< 4.0	< 4.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Styrene	µg/kg	5	MCERTS	-	-	-	< 5.0	< 5.0
Tri bromomethane	µg/kg	7	MCERTS	-	-	-	< 7.0	< 7.0
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	5	MCERTS	-	-	-	< 5.0	< 5.0
Isopropylbenzene	µg/kg	7	NONE	-	-	-	< 7.0	< 7.0
Bromobenzene	µg/kg	11	MCERTS	-	-	-	< 11	< 11
N-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	11	NONE	-	-	-	< 11	< 11
4-Chlorotoluene	µg/kg	11	NONE	-	-	-	< 11	< 11
1,3,5-Trimethylbenzene	µg/kg	4	ISO 17025	-	-	-	< 4.0	< 4.0
Tert-Butylbenzene	µg/kg	4	NONE	-	-	-	< 4.0	< 4.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	< 5.0
Sec-Butylbenzene	µg/kg	5	NONE	-	-	-	< 5.0	< 5.0
1,3-dichlorobenzene	µg/kg	7	ISO 17025	-	-	-	< 7.0	< 7.0
P-Isopropyltoluene	µg/kg	16	ISO 17025	-	-	-	< 16	< 16
1,2-dichlorobenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	< 5.0
1,4-dichlorobenzene	µg/kg	8	MCERTS	-	-	-	< 8.0	< 8.0
Butylbenzene	µg/kg	4	NONE	-	-	-	< 4.0	< 4.0
1,2-Dibromo-3-chloropropane	µg/kg	7	ISO 17025	-	-	-	< 7.0	< 7.0
1,2,4-Trichlorobenzene	µg/kg	9	MCERTS	-	-	-	< 9.0	< 9.0
Hexachlorobutadiene	µg/kg	7	NONE	-	-	-	< 7.0	< 7.0
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	< 10	< 10



Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353858	353859	353860	353861	353863
Sample Reference				TP301	TP302	TP303	TP304	TP305
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.65	0.35	0.70-0.80	0.35	0.40
Date Sampled				30/06/2014	30/06/2014	30/06/2014	30/06/2014	30/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs TICs Compound Name		N/A	NONE	-	-	-	ND	ND
VOC % Match	%	N/A	NONE	-	-	-	0	0



Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

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Lab Sample Number				353858	353859	353860	353861	353863
Sample Reference				TP301	TP302	TP303	TP304	TP305
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
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Date Sampled				30/06/2014	30/06/2014	30/06/2014	30/06/2014	30/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.1	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.1	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.1	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.1	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.1	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.1	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.1	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.1	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.1	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.1	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-



Analytical Report Number: 14-56938

Project / Site name: Haw Lane, Saunderton

Your Order No: G2301

Lab Sample Number				353858	353859	353860	353861	353863
Sample Reference				TP301	TP302	TP303	TP304	TP305
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.65	0.35	0.70-0.80	0.35	0.40
Date Sampled				30/06/2014	30/06/2014	30/06/2014	30/06/2014	30/06/2014
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	-
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	-



Final Report

Report No.: 22-25607-1
Initial Date of Issue: 11-Jul-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 07-Jul-2022

Order No.: **Date Instructed:** 07-Jul-2022

No. of Samples: 13

Turnaround (Wkdays): 3 **Results Due:** 11-Jul-2022

Date Approved: 11-Jul-2022

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607
Quotation No.:	Chemtest Sample ID.:		1463298	1463299	1463300	1463301	1463302	1463303	1463304	1463305	1463306	1463306	1463306
	Sample Location:		B4/TP01	B4/TP01	B4/TP01	B4/TP05	B4/TP05	B3/TP04	B3/TP04	B3/TP01	B3/TP01	B3/TP01	B3/TP01
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.20	0.50	2.50	0.20	1.30	0.20	1.30	0.20	0.70	0.70	0.70
	Bottom Depth (m):		0.50	1.70	2.90	0.50	2.30	1.20	2.30	0.50	1.50	1.50	1.50
	Date Sampled:		05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022
	Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	58	24	23	16	20	17	23	19	22
Soil Colour	N	2040		N/A	Brown	White	White	Beige	White	Brown	White	Beige	White
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Chalk	Chalk	Sand	Chalk	Sand	Chalk	Sand	Chalk
pH	M	2010		4.0	9.1	9.4	9.4	11.0	10.2	9.0	9.6	10.0	9.6
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.92	< 0.40	< 0.40	< 0.40	< 0.40	1.7	< 0.40	< 0.40	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.19	0.026	0.014	0.13	0.039	0.53	0.029	0.040	0.012
Cyanide (Total)	M	2300	mg/kg	0.50	1.3	< 0.50	0.70	0.70	0.60	0.90	< 0.50	0.70	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	4.4	4.3	4.4	4.4	4.5	3.8	3.9	3.8	3.9
Arsenic	M	2455	mg/kg	0.5	10	0.5	< 0.5	4.5	< 0.5	4.4	< 0.5	1.9	< 0.5
Cadmium	M	2455	mg/kg	0.10	0.54	< 0.10	< 0.10	0.25	0.11	0.58	0.17	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	14	1.0	0.6	12	1.1	11	0.9	1.7	0.6
Copper	M	2455	mg/kg	0.50	32	1.5	1.1	27	2.6	18	1.1	2.3	0.56
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	17	1.2	0.89	11	2.4	8.1	1.9	2.3	0.72
Lead	M	2455	mg/kg	0.50	97	2.2	0.91	18	5.0	55	3.6	6.9	0.86
Selenium	M	2455	mg/kg	0.25	0.50	0.26	< 0.25	0.34	< 0.25	0.37	< 0.25	0.27	< 0.25
Vanadium	U	2455	mg/kg	0.5	56	2.1	1.0	13	1.6	16	1.0	3.3	0.7
Zinc	M	2455	mg/kg	0.50	110	6.6	5.6	58	11	170	7.2	12	4.1
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	5.5	5.2	5.3	3.0	4.0	4.6	4.8	1.9	2.5
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	28	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	210	< 1.0	< 1.0	< 1.0	35	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	640	< 1.0	< 1.0	< 1.0	600	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	920	< 5.0	< 5.0	< 5.0	680	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607	22-25607
Quotation No.:	Chemtest Sample ID.:		1463298	1463299	1463300	1463301	1463302	1463303	1463304	1463305	1463306	
	Sample Location:		B4/TP01	B4/TP01	B4/TP01	B4/TP05	B4/TP05	B3/TP04	B3/TP04	B3/TP01	B3/TP01	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.20	0.50	2.50	0.20	1.30	0.20	1.30	0.20	0.70	
	Bottom Depth (m):		0.50	1.70	2.90	0.50	2.30	1.20	2.30	0.50	1.50	
	Date Sampled:		05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022	
	Asbestos Lab:		NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB	
Determinand	Accred.	SOP	Units	LOD								
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	250	< 1.0	< 1.0	< 1.0	89	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	630	< 1.0	< 1.0	< 1.0	190	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	5000	< 1.0	< 1.0	< 1.0	4200	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	21	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	5900	< 5.0	< 5.0	< 5.0	4500	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	6800	< 10	< 10	< 10	5100	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.53	< 0.10	0.94	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.21	< 0.10	1.3	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.20	< 0.10

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-25607	22-25607	22-25607	22-25607
Quotation No.:	Chemtest Sample ID.:				1463307	1463308	1463309	1463310
	Sample Location:				B2/TP04	B2/TP04	B2/TP01	B2/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.80	0.20	0.70
	Bottom Depth (m):				0.70	1.50	0.60	1.50
	Date Sampled:				05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	20	23	20	20
Soil Colour	N	2040		N/A	Beige	White	Beige	White
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Chalk	Chalk	Chalk	Chalk
pH	M	2010		4.0	9.5	9.3	9.5	9.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.49	< 0.40	< 0.40	0.44
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.013	< 0.010	< 0.010	0.012
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	3.8	3.7	3.7	1.5
Arsenic	M	2455	mg/kg	0.5	0.7	< 0.5	< 0.5	0.6
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	1.6	< 0.5	< 0.5	1.8
Copper	M	2455	mg/kg	0.50	1.6	< 0.50	1.3	5.6
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	1.6	< 0.50	0.69	1.9
Lead	M	2455	mg/kg	0.50	2.6	< 0.50	2.9	5.1
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	2.0	< 0.5	< 0.5	2.0
Zinc	M	2455	mg/kg	0.50	7.0	1.8	4.6	13
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	0.56	1.3	0.90	0.38
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-25607	22-25607	22-25607	22-25607
Quotation No.:	Chemtest Sample ID.:				1463307	1463308	1463309	1463310
	Sample Location:				B2/TP04	B2/TP04	B2/TP01	B2/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	0.80	0.20	0.70
	Bottom Depth (m):				0.70	1.50	0.60	1.50
	Date Sampled:				05-Jul-2022	05-Jul-2022	05-Jul-2022	05-Jul-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB	NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 22-28163-1
Initial Date of Issue: 28-Jul-2022
Client AA Environmental Ltd
Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX
Contact(s): Reporting
Project 223159 SAUNDERTON DATA
CENTRE

Quotation No.:		Date Received:	26-Jul-2022
Order No.:	223159	Date Instructed:	26-Jul-2022
No. of Samples:	1		
Turnaround (Wkdays):	3	Results Due:	28-Jul-2022
Date Approved:	28-Jul-2022		

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 SAUNDERTON DATA CENTRE

Client: AA Environmental Ltd	Chemtest Job No.:		22-28163		
Quotation No.:	Chemtest Sample ID.:		1474734		
Order No.: 223159	Client Sample Ref.:		B4/TP01		
	Sample Location:		S1		
	Sample Type:		SOIL		
	Date Sampled:		25-Jul-2022		
	Asbestos Lab:		NEW-ASB		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Moisture	N	2030	%	0.020	4.0
pH	U	2010		4.0	9.5
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.46
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	0.097
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	5.2
Arsenic	U	2455	mg/kg	0.5	1.7
Cadmium	U	2455	mg/kg	0.10	0.14
Chromium	U	2455	mg/kg	0.5	2.8
Copper	U	2455	mg/kg	0.50	4.7
Mercury	U	2455	mg/kg	0.05	< 0.05
Nickel	U	2455	mg/kg	0.50	3.4
Lead	U	2455	mg/kg	0.50	230
Selenium	U	2455	mg/kg	0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	11
Zinc	U	2455	mg/kg	0.50	69
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	12
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	79
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	300
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	2200
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	5400
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	14000
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	1400
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	24000
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	74
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	750
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	6100
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	11000
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	34000
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	2800
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	55000

Results - Soil

Project: 223159 SAUNDERTON DATA CENTRE

Client: AA Environmental Ltd	Chemtest Job No.:		22-28163		
Quotation No.:	Chemtest Sample ID.:		1474734		
Order No.: 223159	Client Sample Ref.:		B4/TP01		
	Sample Location:		S1		
	Sample Type:		SOIL		
	Date Sampled:		25-Jul-2022		
	Asbestos Lab:		NEW-ASB		
Determinand	Accred.	SOP	Units	LOD	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	79000
Naphthalene	U	2700	mg/kg	0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	11
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0

Results - Soil

Project: 223159 SAUNDERTON DATA CENTRE

Client: AA Environmental Ltd	Chemtest Job No.:		22-28163		
Quotation No.:	Chemtest Sample ID.:		1474734		
Order No.: 223159	Client Sample Ref.:		B4/TP01		
	Sample Location:		S1		
	Sample Type:		SOIL		
	Date Sampled:		25-Jul-2022		
	Asbestos Lab:		NEW-ASB		
Determinand	Accred.	SOP	Units	LOD	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
Toluene	U	2760	µg/kg	1.0	5.3
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	5.1
m & p-Xylene	U	2760	µg/kg	1.0	21
o-Xylene	U	2760	µg/kg	1.0	18000
Styrene	U	2760	µg/kg	1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	1.9
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	8700
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	22
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	1.1
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Results - Soil

Project: 223159 Saunderton

AAe Site Grid Ref:

Client: AA Environmental Ltd		Chemtest Job No.:										Hydrock	22-25607	22-28163
Quotation No.:		Chemtest Sample ID.:											1463298	1474734
		Sample Location:										TP301	MG	MG
		Sample Location:										TP301	B4/TP01	B4/TP01 S1
		Sample Type:										SOIL	SOIL	SOIL
		Top Depth (m):										0.65	0.2	
		Bottom Depth (m):											0.5	
		Date Sampled:										30-Jun-2014	05-Jul-2022	25-Jul-2022
		Asbestos Lab:											NEW-ASB	NEW-ASB

Results - Soil

Project: 223159 Saunderton

AAe Site Grid Ref:

Client: AA Environmental Ltd		Chemtest Job No.:									Hydrock	22-25607	22-28163
Quotation No.:		Chemtest Sample ID.:											
		Sample Location:				Updated Soil Re-use Criteria for Areas Beneath Hardstanding (RPS Remediation Strategy Addendum, Table 4.2)	MIN	MAX			1463298	1474734	
		Sample Location:									TP301	MG	MG
		Sample Type:									TP301	B4/TP01	B4/TP01 S1
		Top Depth (m):									SOIL	SOIL	SOIL
		Bottom Depth (m):									0.65	0.2	
		Date Sampled:										0.5	
		Asbestos Lab:									30-Jun-2014	05-Jul-2022	25-Jul-2022
												NEW-ASB	NEW-ASB
Material assumed above / below Final Formation Level of 125 m AOD										ABOVE	ABOVE	ABOVE	
Determinand	Accred.	SOP	Units	LOD	GAC (Industrial)	SGV (Industrial)	Controlled Waters						
Possible Fuel													
Naphthalene	M	2700	mg/kg	0.1	110			0.05	0.05	0.05	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1		76000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1		75000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1		60000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1		22000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1		520000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1		23000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1		54000		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1		BaP Surrogate		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1		BaP Surrogate		0.05	0.05	0.05	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1		BaP Surrogate		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1		BaP Surrogate		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1		76		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1		BaP Surrogate		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1		BaP Surrogate		0.1	0.1	0.1	< 0.10	< 0.10	< 0.10
Benzo(g,h,i)perylene	M	2700	mg/kg	0.1		BaP Surrogate		0.05	0.05	0.05	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2				0.00	0.00		< 2.0	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.1				2	2	2	< 0.10	< 0.10	< 0.10
Benzene	M		ug/kg	1		15000		1	1	1			
Toluene	M		ug/kg	1		4400000		1	1	1			
Ethylbenzene	M		ug/kg	1		2800000		1	1	1			
p & m-xylene	M		ug/kg	1		3200000		1	1	1			
o-xylene	M		ug/kg	1		2600000		1	1	1			
MTBE (Methyl Tertiary Butyl Ether)	M		ug/kg	1				1	1	1			
PCB Congener 28			mg/kg	0.001									
PCB Congener 52			mg/kg	0.001									
PCB Congener 101			mg/kg	0.001									
PCB Congener 118			mg/kg	0.001									
PCB Congener 138			mg/kg	0.001									
PCB Congener 153			mg/kg	0.001									
PCB Cpngener 180			mg/kg	0.001									
Dichlorodifluoromethane	U	2760	µg/kg	1.0				0	0				< 1.0
Chloromethane	U	2760	µg/kg	1.0				0	0				< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0				0	0				< 1.0
Bromomethane	U	2760	µg/kg	20				0	0				< 20
Chloroethane	U	2760	µg/kg	2.0				0	0				< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0				0	0				< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0				0	0				< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0				0	0				< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0				0	0				< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0				0	0				< 1.0
Bromochloromethane	U	2760	µg/kg	5.0				0	0				< 5.0
Trichloromethane	U	2760	µg/kg	1.0				11	11				11
1,1,1-Trichloroethane	U	2760	µg/kg	1.0				0	0				< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0				0	0				< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0				0	0				< 1.0
Benzene	U	2760	µg/kg	1.0		15000		0	0				< 1.0
1,2-Dichloroethane	U	2760	µg/kg	2.0				0	0				< 2.0
Trichloroethene	N	2760	µg/kg	1.0				0	0				< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0				0	0				< 1.0
Dibromomethane	U	2760	µg/kg	1.0				0	0				< 1.0
Bromodichloromethane	U	2760	µg/kg	5.0				0	0				< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10				0	0				< 10

Results - Soil

Project: 223159 Saunderton

AAe Site Grid Ref:

Client: AA Environmental Ltd	Chemtest Job No.:									Hydrock	22-25607	22-28163
Quotation No.:	Chemtest Sample ID.:				Updated Soil Re-use Criteria for Areas Beneath Hardstanding (RPS Remediation Strategy Addendum, Table 4.2)	MIN	MAX				1463298	1474734
	Sample Location:									TP301	MG	MG
	Sample Location:									TP301	B4/TP01	B4/TP01 S1
	Sample Type:									SOIL	SOIL	SOIL
	Top Depth (m):									0.65	0.2	
	Bottom Depth (m):										0.5	
	Date Sampled:									30-Jun-2014	05-Jul-2022	25-Jul-2022
	Asbestos Lab:										NEW-ASB	NEW-ASB
	Material assumed above / below Final Formation Level of 125 m AOD								ABOVE	ABOVE	ABOVE	
Determinand	Accred.	SOP	Units	LOD	GAC (Industrial)	SGV (Industrial)	Controlled Waters					
Toluene	U	2760	µg/kg	1.0		4400000		5	5			5.3
Trans-1,3-Dichloropropene	N	2760	µg/kg	10				0	0			< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10				0	0			< 10
Tetrachloroethene	U	2760	µg/kg	1.0				0	0			< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0				0	0			< 2.0
Dibromochloromethane	U	2760	µg/kg	10				0	0			< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0				0	0			< 5.0
Chlorobenzene	U	2760	µg/kg	1.0				0	0			< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0				0	0			< 2.0
Ethylbenzene	U	2760	µg/kg	1.0		2800000		5	5			5.1
m & p-Xylene	U	2760	µg/kg	1.0		3200000		21	21			21
o-Xylene	U	2760	µg/kg	1.0		2600000		18000	18000			18000
Styrene	U	2760	µg/kg	1.0				0	0			< 1.0
Tribromomethane	U	2760	µg/kg	1.0				0	0			< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0				0	0			< 1.0
Bromobenzene	U	2760	µg/kg	1.0				0	0			< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50				0	0			< 50
N-Propylbenzene	U	2760	µg/kg	1.0				2	2			1.9
2-Chlorotoluene	U	2760	µg/kg	1.0				0	0			< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0				8700	8700			8700
4-Chlorotoluene	U	2760	µg/kg	1.0				0	0			< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0				0	0			< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0				22	22			22
Sec-Butylbenzene	U	2760	µg/kg	1.0				0	0			< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0				0	0			< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0				0	0			< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0				0	0			< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0				1	1			1.1
1,2-Dichlorobenzene	U	2760	µg/kg	1.0				0	0			< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50				0	0			< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0				0	0			< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0				0	0			< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0				0	0			< 2.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0				0	0			< 1.0

Results - Soil

Project: 223159 Saunderton

AAe Site Grid Ref:

B4

B4

Client: AA Environmental Ltd	Chemtest Job No.:									22-25607	22-25607	
Quotation No.:	Chemtest Sample ID.:				Updated Soil Re-use Criteria for Areas Beneath Hardstanding (RPS Remediation Strategy Addendum, Table 4.2)				MIN	MAX	1463299	1463300
	Sample Location:										N	N
	Sample Location:										B4/TP01	B4/TP01
	Sample Type:										SOIL	SOIL
	Top Depth (m):										0.5	2.5
	Bottom Depth (m):										1.7	2.9
	Date Sampled:										05-Jul-2022	05-Jul-2022
	Asbestos Lab:										NEW-ASB	NEW-ASB
	Material assumed above / below Final Formation Level of 125 m AOD										ABOVE	ABOVE
Determinand	Accred.	SOP	Units	LOD	GAC (Industrial)	SGV (Industrial)	Controlled Waters			-	-	
ACM Type	U	2192		N/A						No Asbestos Detected	No Asbestos Detected	
Asbestos Identification	U	2192		N/A								
Asbestos by Gravimetry	U	2192	%	0.001								
Total Asbestos	U	2192	%	0.001								
Moisture	N	2030	%	0.02				23	24	24	23	
Soil Colour	N	2040		N/A						White	White	
Other Material	N	2040		N/A						Stones	Stones	
Soil Texture	N	2040		N/A						Chalk	Chalk	
pH	M	2010		4				9	9	9.4	9.4	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4				0	0	< 0.40	< 0.40	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01				0	0	0.03	0.014	
Cyanide (Total)	M	2300	mg/kg	0.5				1	1	< 0.50	0.7	
Cyanide (Free)			mg/kg	1				0	0			
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.5				4	4	4.30	4.40	
Arsenic	M	2455	mg/kg	0.5				1	1	0.5	< 0.5	
Cadmium	M	2455	mg/kg	0.1				0	0	< 0.10	< 0.10	
Chromium	M	2455	mg/kg	0.5				1	1	1	0.6	
Copper	M	2455	mg/kg	0.5				1	2	2	1	
Mercury	M	2455	mg/kg	0.05				0	0	< 0.05	< 0.05	
Nickel	M	2455	mg/kg	0.5				1	1	1	0.9	
Lead	M	2455	mg/kg	0.5				1	2	2	1	
Selenium	M	2455	mg/kg	0.25				0	0	0.26	< 0.25	
Vanadium	U	2455	mg/kg	0.5				1	2	2.1	1.0	
Zinc	M	2455	mg/kg	0.5				6	7	7	6	
Chromium (Hexavalent)	N	2490	mg/kg	0.5				0	0	< 0.50	< 0.50	
Chromium (III)			mg/kg	1				0	0			
Total Organic Carbon	M	2625	%	0.2				5	5	5	5	
Diesel Present	N	2670		N/A								
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	2400			0	0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	5300			0	0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	1300			0	0	< 1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	6100			0	0	< 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	43000			0	0	< 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	1000000			210	210	210	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	1000000			640	640	640	< 1.0	

Results - Soil

Project: 223159 Saunderton

AAe Site Grid Ref:

B4

B4

Client: AA Environmental Ltd	Chemtest Job No.:									22-25607	22-25607	
Quotation No.:	Chemtest Sample ID.:				Updated Soil Re-use Criteria for Areas Beneath Hardstanding (RPS Remediation Strategy Addendum, Table 4.2)				MIN	MAX	1463299	1463300
	Sample Location:										N	N
	Sample Location:										B4/TP01	B4/TP01
	Sample Type:										SOIL	SOIL
	Top Depth (m):										0.5	2.5
	Bottom Depth (m):										1.7	2.9
	Date Sampled:										05-Jul-2022	05-Jul-2022
	Asbestos Lab:										NEW-ASB	NEW-ASB
	Material assumed above / below Final Formation Level of 125 m AOD										ABOVE	ABOVE
Determinand	Accred.	SOP	Units	LOD	GAC (Industrial)	SGV (Industrial)	Controlled Waters			-	-	
Aliphatic TPH >C16-C35					1000000							
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	1000000			72	72	72	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5				920	920	920	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1	15			0	0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1	33000			0	0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1	2200			0	0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1			425	0	0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1			1900	250	250	250	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1	29000			630	630	630	< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1	29000			5000	5000	5000	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1	29000			21	21	21	< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5				5900	5900	5900	< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10				6800	6800	6800	< 10	
PRO (C6-C10)												
DRO (C10-C24)												
Mineral Oil (C24-C40)												
TPH (C10-C40)												
Possibe Fuel												
Naphthalene	M	2700	mg/kg	0.1	110			0	0	< 0.10	< 0.10	
Acenaphthylene	M	2700	mg/kg	0.1		76000		0	0	< 0.10	< 0.10	
Acenaphthene	M	2700	mg/kg	0.1		75000		0	0	< 0.10	< 0.10	
Fluorene	M	2700	mg/kg	0.1		60000		0	0	< 0.10	< 0.10	
Phenanthrene	M	2700	mg/kg	0.1		22000		0	0	< 0.10	< 0.10	
Anthracene	M	2700	mg/kg	0.1		520000		0	0	< 0.10	< 0.10	
Fluoranthene	M	2700	mg/kg	0.1		23000		0	0	< 0.10	< 0.10	
Pyrene	M	2700	mg/kg	0.1		54000		0	0	< 0.10	< 0.10	
Benzo[a]anthracene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Chrysene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Benzo[a]pyrene	M	2700	mg/kg	0.1		76		0	0	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1		BaP Surrogate		0	0	< 0.10	< 0.10	
Total Of 16 PAH's	M	2700	mg/kg	2				0	0	< 2.0	< 2.0	
Total Phenols	M	2920	mg/kg	0.1				0	0	< 0.10	< 0.10	

Results - Soil

Project: 223159 Saunderton

AAe Site Grid Ref:

B4

B4

Client: AA Environmental Ltd	Chemtest Job No.:									22-25607	22-25607	
Quotation No.:	Chemtest Sample ID.:				Updated Soil Re-use Criteria for Areas Beneath Hardstanding (RPS Remediation Strategy Addendum, Table 4.2)				MIN	MAX	1463299	1463300
	Sample Location:										N	N
	Sample Location:										B4/TP01	B4/TP01
	Sample Type:										SOIL	SOIL
	Top Depth (m):										0.5	2.5
	Bottom Depth (m):										1.7	2.9
	Date Sampled:										05-Jul-2022	05-Jul-2022
	Asbestos Lab:										NEW-ASB	NEW-ASB
	Material assumed above / below Final Formation Level of 125 m AOD										ABOVE	ABOVE
Determinand	Accred.	SOP	Units	LOD	GAC (Industrial)	SGV (Industrial)	Controlled Waters			-	-	
Benzene	M		ug/kg	1		15000						
Toluene	M		ug/kg	1		4400000						
Ethylbenzene	M		ug/kg	1		2800000						
p & m-xylene	M		ug/kg	1		3200000						
o-xylene	M		ug/kg	1		2600000						
MTBE (Methyl Tertiary Butyl Ether)	M		ug/kg	1								
PCB Congener 28			mg/kg	0.001								
PCB Congener 52			mg/kg	0.001								
PCB Congener 101			mg/kg	0.001								
PCB Congener 118			mg/kg	0.001								
PCB Congener 138			mg/kg	0.001								
PCB Congener 153			mg/kg	0.001								
PCB Cpngener 180			mg/kg	0.001								



Comment

B4/TP01

Project

223159 - Saunderton

Photo Plate

1

Date

03/08/2022

Originator

Jack Taylor



AAe

Environmental Consultants

AA Environmental Limited

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Comment B4/TP01	Project 223159 - Saunderton
	Photo Plate 2
	Date 03/08/2022
	Originator Jack Taylor
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

B4/TP01

Project

223159 - Saunderton

Photo Plate

3

Date

03/08/2022

Originator

Jack Taylor



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Comment B4/TP01 V/N1	Project 223159 - Saunderton
	Photo Plate 4
	Date 03/08/2022
	Originator Jack Taylor
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment B4/TP01 V/W1	Project 223159 - Saunderton
	Photo Plate 5
	Date 03/08/2022
	Originator Jack Taylor
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment B4/TP01 V/W2	Project 223159 - Saunderton
	Photo Plate 6
	Date 03/08/2022
	Originator Jack Taylor
	 AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aee-ltd.co.uk www.aee-ltd.co.uk



Comment

B4/TP01 V/S1

Project

223159 - Saunderton

Photo Plate

7

Date

03/08/2022

Originator

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Comment

B4/TP01 V/S1

Project

223159 - Saunderton

Photo Plate

8

Date

03/08/2022

Originator

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Comment B4/TP01 V/E2	Project 223159 - Saunderton
	Photo Plate 9
	Date 03/08/2022
	Originator Jack Taylor
	 Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aee-ltd.co.uk www.aee-ltd.co.uk



Comment B4/TP01 V/E1	Project 223159 - Saunderton
	Photo Plate 10
	Date 03/08/2022
	Originator Jack Taylor
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Comment B4/TP01 V/B1	Project 223159 - Saunderton
	Photo Plate 11
	Date 03/08/2022
	Originator Jack Taylor
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aee-ltd.co.uk www.aee-ltd.co.uk



Comment B4/TP01 V/B2	Project 223159 - Saunderton
	Photo Plate 12
	Date 03/08/2022
	Originator Jack Taylor
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Comment

B4/TP01 V/B3

Project

223159 - Saunderton

Photo Plate

13

Date

03/08/2022

Originator

Jack Taylor



AA Environmental Limited

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2183

Final Report

Report No.: 22-29535-1
Initial Date of Issue: 08-Aug-2022
Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223159 Saunderton

Quotation No.: **Date Received:** 04-Aug-2022

Order No.: 223159 **Date Instructed:** 04-Aug-2022

No. of Samples: 15

Turnaround (Wkdays): 3 **Results Due:** 08-Aug-2022

Date Approved: 08-Aug-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-29535	22-29535	22-29535	22-29535	22-29535	22-29535	22-29535	22-29535	22-29535
Quotation No.:	Chemtest Sample ID.:				1481021	1481022	1481023	1481024	1481025	1481026	1481027	1481028	1481029
Order No.: 223159	Client Sample Ref.:				V-B1	V-B2	V-B1	V-B2	V-B1	V-B2	V-N1	V-E1	V-E2
	Sample Location:				B4/TP04	B4/TP04	B2/TP03	B2/TP03	B3/TP02	B3/TP02	B4/TP01	B4/TP01	B4/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB			NEW-ASB	NEW-ASB			
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-			-	-			
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected	No Asbestos Detected			
Moisture	N	2030	%	0.020			13	15			17	18	19
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0			< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0			< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0			< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			< 10	< 10			< 10	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Bromomethane	U	2760	µg/kg	20							< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0							< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0							< 5.0	< 5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Benzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-29535	22-29535	22-29535	22-29535	22-29535	22-29535	22-29535	22-29535	
Quotation No.:	Chemtest Sample ID.:				1481021	1481022	1481023	1481024	1481025	1481026	1481027	1481028	1481029
Order No.: 223159	Client Sample Ref.:				V-B1	V-B2	V-B1	V-B2	V-B1	V-B2	V-N1	V-E1	V-E2
	Sample Location:				B4/TP04	B4/TP04	B2/TP03	B2/TP03	B3/TP02	B3/TP02	B4/TP01	B4/TP01	B4/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022
	Asbestos Lab:				NEW-ASB	NEW-ASB			NEW-ASB	NEW-ASB			
Determinand	Accred.	SOP	Units	LOD									
1,2-Dichloroethane	U	2760	µg/kg	2.0							< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Bromodichloromethane	U	2760	µg/kg	5.0							< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10							< 10	< 10	< 10
Toluene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10							< 10	< 10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10							< 10	< 10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0							< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10							< 10	< 10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0							< 5.0	< 5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0							< 2.0	< 2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50							< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50							< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0							< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0							< 2.0	< 2.0	< 2.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:									
Quotation No.:	Chemtest Sample ID.:									
Order No.: 223159	Client Sample Ref.:									
	Sample Location:									
	Sample Type:									
	Date Sampled:									
	Asbestos Lab:									
Determinand	Accred.	SOP	Units	LOD						
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0					< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:				22-29535	22-29535	22-29535	22-29535	22-29535	22-29535
Quotation No.:	Chemtest Sample ID.:				1481030	1481031	1481032	1481033	1481034	1481035
Order No.: 223159	Client Sample Ref.:				V-W1	V-W2	V-S1	V-B1	V-B2	V-B3
	Sample Location:				B4/TP01	B4/TP01	B4/TP01	B4/TP01	B4/TP01	B4/TP01
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022
	Asbestos Lab:									
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A						
Asbestos Identification	U	2192		N/A						
Moisture	N	2030	%	0.020	18	17	20	20	19	19
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	2760	µg/kg	1.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:		22-29535	22-29535	22-29535	22-29535	22-29535	22-29535
Quotation No.:	Chemtest Sample ID.:		1481030	1481031	1481032	1481033	1481034	1481035
Order No.: 223159	Client Sample Ref.:		V-W1	V-W2	V-S1	V-B1	V-B2	V-B3
	Sample Location:		B4/TP01	B4/TP01	B4/TP01	B4/TP01	B4/TP01	B4/TP01
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:		03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022
	Asbestos Lab:							
Determinand	Accred.	SOP	Units	LOD				
1,2-Dichloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10
Toluene	U	2760	µg/kg	1.0	2.2	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	2760	µg/kg	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd	Chemtest Job No.:					22-29535	22-29535	22-29535	22-29535	22-29535	22-29535
Quotation No.:	Chemtest Sample ID.:					1481030	1481031	1481032	1481033	1481034	1481035
Order No.: 223159	Client Sample Ref.:					V-W1	V-W2	V-S1	V-B1	V-B2	V-B3
	Sample Location:					B4/TP01	B4/TP01	B4/TP01	B4/TP01	B4/TP01	B4/TP01
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:					03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022	03-Aug-2022
	Asbestos Lab:										
Determinand	Accred.	SOP	Units	LOD							
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Test Methods

SOP	Title	Parameters included	Method summary
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

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

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

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Results - Soil

Project: 223159 Saunderton

Client: AA Environmental Ltd

Quotation No.:

AAe Site Grid Ref:

Chemtest Job No.:

Chemtest Sample ID.:

Client Sample ID:

Sample Location:

Sample Type:

Top Depth (m.):

Bottom Depth (m.):

Date Sampled:

Asbestos Lab:

Ramboll RTC (Table 4.1. Updated Remedial Target Concentrations, Remediation Strategy Addendum 2022)

MIN

MAX

B4

22-29535

1481027

V-N1

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481028

V-E1

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481029

V-E2

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481030

V-W1

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481031

V-W2

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481032

V-S1

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481033

V-B1

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481034

V-B2

B4/TP01

SOIL

03-Aug-2022

B4

22-29535

1481035

V-B3

B4/TP01

SOIL

03-Aug-2022

Results - Soil																					
Project: 223159 Saunderton		AAe Site Grid Ref:						B4		B4		B4		B4		B4		B4		B4	
Client: AA Environmental Ltd		Chemtest Job No.:						22-29535		22-29535		22-29535		22-29535		22-29535		22-29535		22-29535	
Quotation No.:		Chemtest Sample ID.:						1481027		1481028		1481029		1481030		1481031		1481032		1481033	
		Client Sample ID:						V-N1		V-E1		V-E2		V-W1		V-W2		V-S1		V-B1	
		Sample Location:						B4/TP01		B4/TP01		B4/TP01		B4/TP01		B4/TP01		B4/TP01		B4/TP01	
		Sample Type:						SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Top Depth (m):																			
		Bottom Depth (m):																			
		Date Sampled:						03-Aug-2022		03-Aug-2022		03-Aug-2022		03-Aug-2022		03-Aug-2022		03-Aug-2022		03-Aug-2022	
		Asbestos Lab:																			

Proforma B – Hot Spot/Unexpected Contamination Characteristics

Site	SAUNDERTON DATA CENTRE, HAW LANE	Grid Reference(s)	A5-A6
Plan reference	Water Pipe Excavation & Validation 223159/D/VAL/005/REV A	Proforma B Reference	B/004
Contaminant(s) of concern	Unknown pipework to be excavated	Health and safety risk	Unknown pipework.

1. Investigation of area – Source characterisation

Date	Investigation Reference(s)	Results / Comments
20/10/22	Identification of Water Pipe	Water Pipe excavation required.

2a. Evidence of decontamination/removal

Plan Reference showing extent of removal	Results (link to report numbers)	Estimated volume	Date
Water Pipe Excavation & Validation	22-08803	TBC – Final volume to be confirmed by Enterprise.	20/10/22
Total estimated volume removed	TBC		

Comments

AAe sampled base of excavation. Excavation terminated at approximately 1 m below existing ground level. All TPH results were below laboratory limits of detection. All Polycyclic Aromatic Hydrocarbons (PAH) results were below the laboratory limits of detection. Concentrations of BTEX and MTBE were recorded below the laboratory limits of detection apart from toluene. There are no exceedances against the Ramboll Remedial Target Concentrations (RTCs).

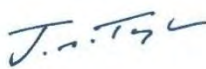
Volume removed	TBC
----------------	-----

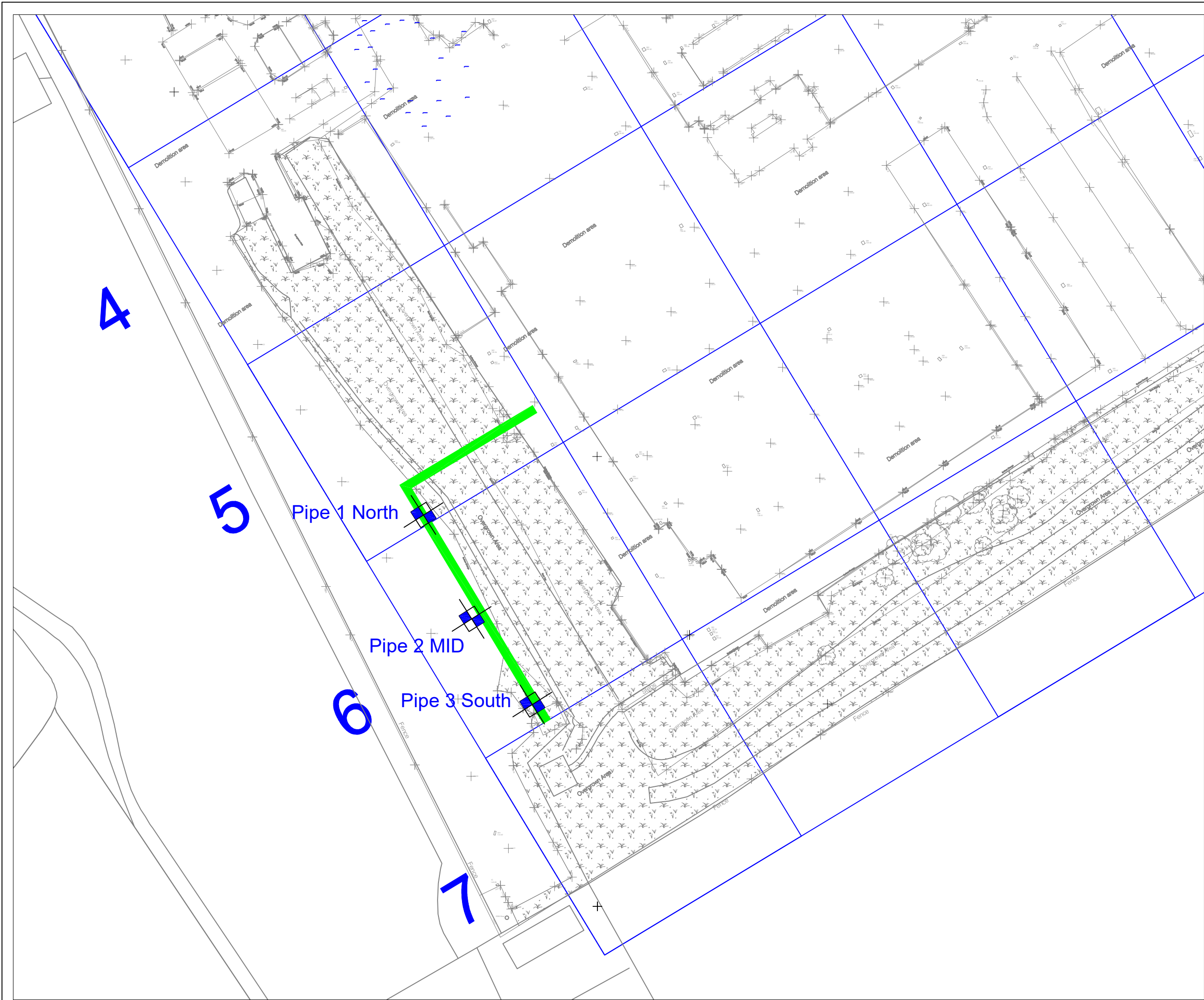
2b. Details of imported fill

N/A – Reinstatement with site-won acceptable natural uncontaminated subsoils (chalk). Enterprise to confirm source grid square(s).

2c. Topographical survey showing reinstatement levels

Survey Drawing Reference	Surveyor
--------------------------	----------

Sign off	Name	Signature	Date
	J Taylor		09/12/22 (FINAL v3)



KEY:

-  Water Pipeline Excavation Sample Points
-  Excavated Water Pipeline Route

Rev.	Details	Drawn Chkd.	Date
Project 223159 Saunderton			
Title Excavated Water Pipeline Sample Plan			
 AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk			
Scale 1:2000(A3)	Date Nov '22	Drg. No. 223159/D/VAL/005	Rev. A



Comment Pipe encountered along the western bank of the site.	Project Saunderton
	Photo Plate Photo 1
	Date 20/10/2022
	Originator J Taylor
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk



Comment

The pipe was excavated and validation samples were taken along the excavated strip.

Project

Saunderton

Photo Plate

Photo 2

Date

20/10/2022

Originator

J Taylor

AA Environmental Limited

Units 4-8 Cholswell Court
Shippon, Abingdon
OX13 6HX

T: (01235) 536042

F: (01235) 523849

info@aae-ltd.co.uk

www.aae-ltd.co.uk



Comment Excavated area whilst facing northwards.	Project Saunderton
	Photo Plate Photo 3
	Date 20/10/2022
	Originator J Taylor
	 AAe Environmental Consultants AA Environmental Limited Units 4-8 Cholswell Court Shippon, Abingdon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aee-ltd.co.uk www.aee-ltd.co.uk



Jack Taylor
AA Environmental Ltd
4-8 Cholswell Court
Shippon
Abingdon
Oxford
OX13 6HX

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-08803

Site Reference: Saunderton

Project / Job Ref: 223159

Order No: 223159

Sample Receipt Date: 24/10/2022

Sample Scheduled Date: 24/10/2022

Report Issue Number: 1

Reporting Date: 27/10/2022

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Lenham Heath
Maidstone
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Tel : 01622 850410



Soil Analysis Certificate						
DETS Report No: 22-08803	Date Sampled	20/10/22	20/10/22	20/10/22		
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Saunderton	TP / BH No	Pipe - 1	Pipe - 2	Pipe - 3		
Project / Job Ref: 223159	Additional Refs	North	MID	South		
Order No: 223159	Depth (m)	0.60	0.60	0.60		
Reporting Date: 27/10/2022	DETS Sample No	617488	617489	617490		

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)		
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected		
pH	pH Units	N/a	MCERTS	9.1	8.6	8.4		
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2		
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	60	22	18		
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.06	0.02	0.02		
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5		
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	1	0.8	0.7		
Arsenic (As)	mg/kg	< 2	MCERTS	3	< 2	< 2		
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2	< 0.2	< 0.2		
Chromium (Cr)	mg/kg	< 2	MCERTS	4	3	3		
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2		
Copper (Cu)	mg/kg	< 4	MCERTS	17	8	9		
Lead (Pb)	mg/kg	< 3	MCERTS	20	3	4		
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	3	< 3	< 3		
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3		
Vanadium (V)	mg/kg	< 1	MCERTS	7	3	3		
Zinc (Zn)	mg/kg	< 3	MCERTS	106	29	38		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 22-08803	Date Sampled	20/10/22	20/10/22	20/10/22		
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Saunderton	TP / BH No	Pipe - 1	Pipe - 2	Pipe - 3		
Project / Job Ref: 223159	Additional Refs	North	MID	South		
Order No: 223159	Depth (m)	0.60	0.60	0.60		
Reporting Date: 27/10/2022	DETS Sample No	617488	617489	617490		

Determinand	Unit	RL	Accreditation	(n)		(n)		
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6		

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 22-08803	Date Sampled	20/10/22	20/10/22	20/10/22		
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Saunderton	TP / BH No	Pipe - 1	Pipe - 2	Pipe - 3		
Project / Job Ref: 223159	Additional Refs	North	MID	South		
Order No: 223159	Depth (m)	0.60	0.60	0.60		
Reporting Date: 27/10/2022	DETS Sample No	617488	617489	617490		

Determinand	Unit	RL	Accreditation	(n)		(n)	
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 22-08803	Date Sampled	20/10/22	20/10/22	20/10/22		
AA Environmental Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Saunderton	TP / BH No	Pipe - 1	Pipe - 2	Pipe - 3		
Project / Job Ref: 223159	Additional Refs	North	MID	South		
Order No: 223159	Depth (m)	0.60	0.60	0.60		
Reporting Date: 27/10/2022	DETS Sample No	617488	617489	617490		

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
Toluene	ug/kg	< 5	MCERTS	15	13	14	
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	

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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 22-08803	
AA Environmental Ltd	
Site Reference: Saunderton	
Project / Job Ref: 223159	
Order No: 223159	
Reporting Date: 27/10/2022	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
617488	Pipe - 1	North	0.60	16.1	Brown sandy clay with chalk
617489	Pipe - 2	MID	0.60	16.5	White chalk
617490	Pipe - 3	South	0.60	15.9	White chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 22-08803	
AA Environmental Ltd	
Site Reference: Saunderton	
Project / Job Ref: 223159	
Order No: 223159	
Reporting Date: 27/10/2022	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

APPENDIX 6

ASBESTOS WASTE DOCUMENTATION

The Hazardous Waste Regulations 2005:
Consignment Note

Tel: 01708 866060
Email: info@asbestoswastesolutions.co.uk
Web: www.asbestoswastesolutions.co.uk

PART A Notification details

- 1 Consignment note code: **ENTERA/D1147**
- 2 The waste described below is to be removed from
**ENTEPRISE SKIP HIRE LTD
HAW LANE
BLEDLOW RIDGE
HIGH WYCOMBE
BUCKINGHAMSHIRE
HP14 4AH**
- 3 The waste will be taken to
**PINDEN LTD PINDEN QUARRY
GREEN ST GREEN RD LONGFIELD
DARTFORD KENT DA2 8EB**
- 4 The waste producer was
**ENTEPRISE SKIP HIRE LTD
CHILTERN VIEW NURSERY WENDOVER ROAD
AYLESBURY BUCKINGHAMSHIRE HP22 5GX**

PART B Description of the waste

- 1 The process giving rise to the waste(s) was: **ASBESTOS REMOVAL** 2 SIC (2007) for the process giving rise to the waste: **43 99 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)	Form, type, number and size
CEMENT SHEETS	1 7 0 6 0 5		CHRYSTILE	< 10 %	SOLID	HP5 / HP7

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 6 0 5	UN 2590	CHRYSTILE ASBESTOS	9	PG III (E)	Double Bagged / Vapour

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, A4 and B3 are correct and I have been advised of any specific handling requirements

Where this note comprises part of a multiple collection the round number and collection number are:

1

1 Carrier name:

**PINDEN LTD PINDEN QUARRY
GREEN ST GREEN RD LONGFIELD
DARTFORD KENT DA2 8EB**

2 Carrier registration no. **CBDU133922**

3 Vehicle registration no.: **GJ14OHF**

Signature **[Signature]**

Date **01/11/2022** Time **12:55**

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 packaging measures. All of the waste is packed 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:

James

On behalf of

**ENTEPRISE SKIP HIRE LTD
CHILTERN VIEW NURSERY WENDOVER ROAD
AYLESBURY BUCKINGHAMSHIRE HP22 5GX**

Signature **[Signature]**

Date **01/11/2022** Time **12:55**

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 identified)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D) and
1 7 0 6 0 5	1026	A	D15

1 I received this waste at the address given in A4 on: Date **01/11/2022** Time **13:13**

2 Vehicle registration no.: **GJ14OHF**

Name:

On behalf of:

**PINDEN LTD PINDEN QUARRY
GREEN ST GREEN RD LONGFIELD
DARTFORD KENT DA2 8EB**

I certify that waste permit number:

BV 1674 IL

authorises the management of the waste described in B at the address given in A4.

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 **[Signature]**

Date **01/11/2022** Time **13:13**

APPENDIX 7

MMP DECLARATIONS FOR DIRECT TRANSFER SITES



Definition of Waste Code of Practice Declaration Receipt

This Declaration has been submitted to the Environment Agency under the Definition of Waste Code of Practice (DoW CoP).

You are reminded that if materials are not used in accordance with the Materials Management Plan or risk assessment, or if it is discovered that materials were not suitable for use, were used in excessive quantity or in such a manner as to harm human health or pollute the environment, the Environment Agency may conclude that those materials were discarded and were waste.

You are also reminded that a Verification Report must be prepared on completion of the work as set out in the Remediation Strategy / Design Statement covering the site. This Verification Report must be provided to the Environment Agency upon request.

This receipt relates to the following Declaration -

1. References	
Your Reference for this Declaration	TT-BurnhamBeeches-Saunderton
Related declaration references	
3. Site of Origin	N/A
4. Direct Transfer	Checked
5. Cluster Project (including use of a fixed Soil Treatment Facility as a Hub site)	N/A
2. Proposed Volumes	
Proposed Volumes in m ³	77000
Additional comments on Proposed Volumes	
4. Direct Transfer	
4a. Route A: Direct use of clean naturally occurring soils with elevated levels of naturally occurring substances on another development site.	N/A
4b. Route B: Direct use of clean naturally occurring soils on another development site.	Checked
4c. Donor Sites	
Donor Site #1	



Site Address	Former Molins Site, Haw Lane, Saunderton, Wycombe, Bucks HP14 4JD
Company	CAM Capital Ltd
Developer company address	64 New Cavendish Street, London, England, W1G 8TB
Name	John Lennon
Email	john@camcapital.uk
Telephone	07767 846213
4d. Receiver Sites	
Receiver Site #1	
Site Address	Burnham Beeches Golf Club, off Green Lane / Grove Road, Burnham, Buckinghamshire, SL1 8EG
Company	Burnham Beeches Golf Club
Developer company address	Burnham Beeches Golf Club, off Green Lane / Grove Road, Burnham, Buckinghamshire, SL1 8EG
Name	Terry Willcox
Email	terry@laymanproperty.co.uk
Telephone	01628 661448

6. Local Authorities / Regulators

6a. Local Authorities

Local Authority #1

Receiver Site Local Authority	South Buckinghamshire District Council
Local Authority Address	Capswood, Oxford Road, Denham, Bucks, UB9 4LH Shared Service - Environmental Health, Sustainability and Resilience Team
Lead Contact Name	Ben Firmin
Lead Contact Role	Senior Environmental Protection Officer
Lead Contact Address (if different from above)	
Lead Contact Email	Benjamin.Firmin@chilternandsouthbucks.gov.uk
Lead Contact Telephone	01494 732293



Receiver Site Agency	Hatfield
Agency Address	Hertfordshire and North London Environment Management Waste Team Environment Agency, Alchemy, Bessemer Road, Welwyn Garden City, Hertfordshire, AL7 1HE
Contact Telephone	0370 850 6506
Contact Email	Richard.watts@environment-agency.gov.uk

7. Lines of Evidence	
Reference for the Materials Management Plan	Materials Management Plan prepared by Tetra Tech
Reference for the Risk Assessment	Appendix C - Burnham Beeches Golf Course Site Investigation (WSP 25 February 2019) Appendix G - Burnham Beeches Golf Club - Preliminary Risk Assessment (Phase 1 Assessment) (WSP May 2018)
Reference for either Remediation Strategy or Design Statement	Appendix B - Burnham Beeches Golf Club Soil Management Strategy (WSP May 2018)
Reference for the Verification Plan	See Section 26 of MMP
Company	Oakland Golf & Leisure (UK) Ltd
Address	20 Rockery Rd Leeds West Yorkshire LS18 5AS.
Name	Jonathan Snellgrove
Email	Jonathan@oaklandgandl.com
Telephone	07836784779
Expected production date for the Verification Report.	2022-12-05 00:00:00
7gi. Location plans	Appendix A.1: Site Location Plan Appendix A.2: Application Boundary Plan Appendix A.3: Site Re-design Appendix A.4: Site Investigation Plan. Appendix A.5: Proposed Stockpile Locations and source site investigation report
7gii. Schematics	See section 7 of the MMP



7giii. Desk Top Study	Chapter 13 Ground Conditions Outline Planning Application Environmental Statement Main Text and Figures for Former Molins Site Haw Lane Saunderton, Wycombe prepared by Hydrock on behalf of St. Congar dated December 2014. Remediation Statement for Former Molins Site, Haw Lane, Saunderton, Bucks HP14 4JD prepared by GEA on behalf of St Congar Land dated 26 June 2020 reference J20063A. Waste Segregation & Discovery Strategy (Enabling Works Phase) (AA Environmental Limited - Document Ref: 223159/WSDS/001). Excluding non-natural Made Ground and hot spots identified in the MMP (TP321 and TP321a).
7giv. Mass balance calculations	See Section 19 of the MMP and Appendix A.3: Site Re-design
7gv. Contingency arrangements	Sections 21a to 21d of the MMP
7gvi. Tracking system	See Section 22 of the MMP and Appendix I Soil Movements Form
a) The Local Authority	Checked
b) Environment Agency	Checked
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A
Reference the correspondence with the Local Authority	See Decision Notice Appendix D of the MMP e-mail dated 7th November 2018 agreeing to Preliminary Risk Assessment (Phase 1 Assessment) (Document ref. 70045672-11047) and the Soil Management Strategy (Document ref. 70045672-11049), prepared by WSP. Appendix E e-mail confirming no objection to the use of DoWCoP dated 28th November 2018
Reference the correspondence with the Environment Agency	Appendix F – email of 13th November 2018 stating no objection to the use of the DoWCoP Direct Transfer scenario of the DoWCoP - Not consulted as per Paragraph 3.37, Table 2 and Route B (bullet point 3).



I have reviewed the planning consent including planning conditions	Checked
Planning Reference (State either the reference or Not Applicable.)	PL/18/2406/FA
a) The Local Authority	Checked
b) Environment Agency	N/A
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A
Please list correspondence reviewed above	See 7h above
Planning consent not required	N/A

8. QP Declaration

8a. QP Name	Ged Duckworth
8b. QP Number	QP001
8c. I satisfy the Qualified Person requirements set out in Appendix 6 of the Definition of Waste: Development Industry Code of Practice to complete this Declaration.	Checked
8d. I have reviewed the Materials Management Plan for the above project.	Checked
8e. I have reviewed the Risk Assessment.	Checked
8f. I have reviewed the Remediation Strategy/Design Statement covering the above site.	Checked
8g. I have requested correspondence / documentation relating to the development and how that relates to the use of materials.	Checked
8h. The risk assessment assesses human health and environmental risks in relation to the proposed uses of all the materials in the MMP. The risk assessment concludes that the objectives of preventing harm to human health and pollution of the environment will be met if materials are used in the proposed manner	Checked



8i. The Local Authority, the Environment Agency / Natural Resources Wales and other relevant environmental regulatory bodies have not objected to the proposed development / land remediation on the basis that the use of any material is likely to cause harm to human health or pollution of the environment. [This confirmation should be given regardless of whether planning consent is required for the activity. Also see paragraph 3.37 of the CoP.].	Checked
8j. The EA/NRW have not objected to the reuse of materials on the grounds that it a.) constitutes a waste management operation or b.) has had a previous application for an environmental permit for waste recovery refused (on the grounds that the project represents waste disposal).	Checked
8k. The project does not involve land-spreading / agricultural re-profiling.	Checked
8l. The project has not yet commenced; this is not a retrospective application of the DoW CoP.	Checked



Definition of Waste Code of Practice Declaration Receipt

This Declaration has been submitted to the Environment Agency under the Definition of Waste Code of Practice (DoW CoP).

You are reminded that if materials are not used in accordance with the Materials Management Plan or risk assessment, or if it is discovered that materials were not suitable for use, were used in excessive quantity or in such a manner as to harm human health or pollute the environment, the Environment Agency may conclude that those materials were discarded and were waste.

You are also reminded that a Verification Report must be prepared on completion of the work as set out in the Remediation Strategy / Design Statement covering the site. This Verification Report must be provided to the Environment Agency upon request.

This receipt relates to the following Declaration -

1. References	
Your Reference for this Declaration	TT-SouthBucks-Saunderton
Related declaration references	
3. Site of Origin	N/A
4. Direct Transfer	Checked
5. Cluster Project (including use of a fixed Soil Treatment Facility as a Hub site)	N/A
2. Proposed Volumes	
Proposed Volumes in m ³	145000
Additional comments on Proposed Volumes	
4. Direct Transfer	
4a. Route A: Direct use of clean naturally occurring soils with elevated levels of naturally occurring substances on another development site.	N/A
4b. Route B: Direct use of clean naturally occurring soils on another development site.	Checked
4c. Donor Sites	
Donor Site #1	



Site Address	Former Molins Site, Haw Lane, Saunderton, Wycombe, Bucks HP14 4JD
Company	CAM Capital Ltd
Developer company address	64 New Cavendish Street, London, England, W1G 8TB
Name	John Lennon
Email	john@camcapital.uk
Telephone	07767 846213
4d. Receiver Sites	
Receiver Site #1	
Site Address	South Buckinghamshire Golf Academy Stoke Road, Stoke Poges, Buckinghamshire, SL2 4NL.
Company	Glendale Services
Developer company address	The Coach House, Duxbury Hall Road, Duxbury Park, Chorley PR7 4AT.
Name	Mark Oliver
Email	mark.oliver@glendale-services.co.uk
Telephone	07717516351

6. Local Authorities / Regulators

6a. Local Authorities

Local Authority #1

Receiver Site Local Authority	South Buckinghamshire District Council
Local Authority Address	Capswood, Oxford Road, Denham, UB9 4LH.
Lead Contact Name	Ben Firmin
Lead Contact Role	Senior Environmental Protection Officer (Contaminated Land)
Lead Contact Address (if different from above)	
Lead Contact Email	Benjamin.Firmin@chilternandsouthbucks.gov.uk
Lead Contact Telephone	01494 732293



Receiver Site Agency	Hatfield
Agency Address	Waste Team South, Thames Area, Goldcrest House, Alice Holt Lodge, Farnham, Surrey, GU10 4LH
Contact Telephone	0203025955
Contact Email	william.edwards@environment- agency.gov.uk

7. Lines of Evidence

Reference for the Materials Management Plan	MMP prepared by Andrew Moore of Tetra Tech
Reference for the Risk Assessment	Sections 5 & 6 (Human Health) and Section 7 (Controlled Waters) of Report entitled 'South Buckinghamshire Country Park, Phase II Site Appraisal for EDP Parkwood' prepared by GRM, Ref. P8323/F.1 rev A, dated January 2019.
Reference for either Remediation Strategy or Design Statement	Sections 9 (Remediation) of Report entitled 'South Buckinghamshire Country Park, Phase II Site Appraisal for EDP Parkwood' prepared by GRM, Ref. P8323/F.1 rev A, dated January 2019. Appendix H - Soils Management Strategy and Earthworks Specification.
Reference for the Verification Plan	See Box 26 of MMP and Park Soil Management Strategy and Earthworks Specification, prepared by WSP, Ref. 70058148-11343, dated April 2019.
Company	Oakland Golf & Leisure (UK) Ltd
Address	20 Rockery Rd Leeds West Yorkshire LS18 5AS.
Name	Jonathan Snellgrove
Email	Jonathan@oaklandgandl.com
Telephone	07836784779
Expected production date for the Verification Report.	2022-12-05 00:00:00
7gi. Location plans	Appendix B1 - Site Location Plan and Source Site Investigation Report



7gii. Schematics	Appendix B2 - Site Contours and Site Sections B3
7giii. Desk Top Study	Chapter 13 Ground Conditions Outline Planning Application Environmental Statement Main Text and Figures for Former Molins Site Haw Lane Saunderton, Wycombe prepared by Hydrock on behalf of St. Congar dated December 2014. Remediation Statement for Former Molins Site, Haw Lane, Saunderton, Bucks HP14 4JD prepared by GEA on behalf of St Congar Land dated 26 June 2020 reference J20063A. Waste Segregation & Discovery Strategy (Enabling Works Phase) (AA Environmental Limited - Document Ref: 223159/WSDS/001). Excluding non-natural Made Ground and hot spots identified in the MMP (TP321 and TP321a).
7giv. Mass balance calculations	Sections 21a to 21d of the MMP Appendix I - Concept Volume Plan
7gv. Contingency arrangements	Sections 21a. to 21d of the Materials Management Plan and also referenced in the Soils Management Strategy and Earthworks Specification which meet the requirements of Watch Point 8 of the DoWCoP.
7gvi. Tracking system	Appendix E - Materials Movement Sheet
a) The Local Authority	Checked
b) Environment Agency	Checked
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A



Reference the correspondence with the Local Authority	See Planning Permission E-mail from Ben Firmin, Senior Environmental Protection Officer (Contaminated Land), Shared Service - Environmental Health, Sustainability and Resilience Team, South Buckinghamshire District Council to Gary Murphy, Principal Planning Officer, Strategic Sites and Specialist Team, Chiltern & South Bucks District Councils, entitled PL/19/0546/ CON A, dated 10th April 2019.
Reference the correspondence with the Environment Agency	Email from William Edwards, Senior Environment Officer, Waste Team South, Environment Agency - Thames Area to Andrew Moore, WSP UK Limited, entitled EA Consultation for CL:AIRE Declaration, dated 1st May 2019 e-mail regarding on going use of the DoWCoP dated 12th November 2021 e-mail Continued use of the DoWCoP dated 15th December 2021
I have reviewed the planning consent including planning conditions	Checked
Planning Reference (State either the reference or Not Applicable.)	18/00922/FUL
a) The Local Authority	Checked
b) Environment Agency	N/A
c) Natural Resources Wales	N/A
d) Other relevant environmental regulatory bodies	N/A
Please list correspondence reviewed above	See 7h above
Planning consent not required	N/A

8. QP Declaration	
8a. QP Name	Ged Duckworth
8b. QP Number	QP001



8c. I satisfy the Qualified Person requirements set out in Appendix 6 of the Definition of Waste: Development Industry Code of Practice to complete this Declaration.	Checked
8d. I have reviewed the Materials Management Plan for the above project.	Checked
8e. I have reviewed the Risk Assessment.	Checked
8f. I have reviewed the Remediation Strategy/Design Statement covering the above site.	Checked
8g. I have requested correspondence / documentation relating to the development and how that relates to the use of materials.	Checked
8h. The risk assessment assesses human health and environmental risks in relation to the proposed uses of all the materials in the MMP. The risk assessment concludes that the objectives of preventing harm to human health and pollution of the environment will be met if materials are used in the proposed manner	Checked
8i. The Local Authority, the Environment Agency / Natural Resources Wales and other relevant environmental regulatory bodies have not objected to the proposed development / land remediation on the basis that the use of any material is likely to cause harm to human health or pollution of the environment. [This confirmation should be given regardless of whether planning consent is required for the activity. Also see paragraph 3.37 of the CoP.].	Checked
8j. The EA/NRW have not objected to the reuse of materials on the grounds that it a.) constitutes a waste management operation or b.) has had a previous application for an environmental permit for waste recovery refused (on the grounds that the project represents waste disposal).	Checked
8k. The project does not involve land-spreading / agricultural re-profiling.	Checked



DoW CoP

Sustainable Reuse of Soils
A CL:AIRE Initiative

2022-05-27 10:14:17

8l. The project has not yet commenced; this is not a retrospective application of the DoW CoP.

Checked

