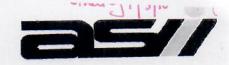
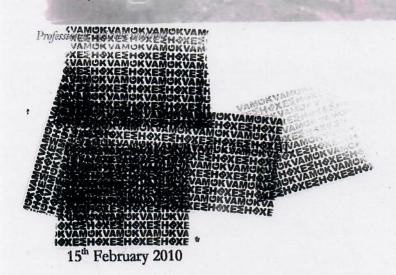
Selling or Developing Property?



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REDROTTE
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Our Ref: A417/S/JW

Dear Mrs. Oates,

I am writing to you in relationship to 3 soil samples collected from the former WAAF site, New Portreath Road, Redruth. The samples were taken randomly across the site area, in order to provide a representation of the heavy metal content within the topsoil horizon.

The collected samples was subsequently stored in sealed polythene sample collection bag and dispatched to ACS Environmental Testing Ltd (UCAS accredited) for analysis.

The samples were analysed for the following elements and pH levels:

Arsenic Nickel

Cadmium Lead Chromium Selenium Copper Zinc

Mercury pH

Screening Criteria

In assessing the levels of compounds in the soil at the site, we have used the Soil Guideline Values (SGV) published by DEFRA and the EA. Soil Guideline Values are based on research undertaken for DEFRA and the Environment Agency and derived by the Contaminated Land Exposure Assessment model (CLEA). *

Soil Guideline Values (SGV) are scientifically based generic assessment criteria to help evaluate long-term risks to human health from chemical contamination in soil. SGV's are utilized as "trigger values". Where soil concentrations exceed SGV, there may be a cause for concern to human health. Such levels may pose a significant risk to human health, although you will usually need to conduct further investigation and evaluation of risk. (Environment Agency)

Unfortunately the returned values from the laboratory have shown that the submitted soil samples were determined to be unsuitable for use within an allotment application, this being due to the level of arsenic and cadmium exceeding government set guideline values (please refer to the sample analysis data sheet provided and information below for details).

The failing elements have been listed below.

Elements	Sample No.	Sample No.	Sample No.
	(1)	(2)	(3)
Arsenic Cadmium	91 mg/kg 8.2 mg/kg	196 mg/kg 9.2 mg/kg	130 mg/kg 9.2 mg/kg

All other tested elements were determined to be below the threshold levels.

Government Set CLEA Soil Guideline Values (SGV) - Limits

Element	Land usage scenario	Land usage scenario	Land usage scenario
	Commercial	Allotment	Residential with plant
Arsenic	(mg/kg dry weight soil)	(mg/kg dry weight soil)	uptake (mg/kg dry weight soil)
Cadmium	640	. 43	32
Chromium	230 5000	1.8	10
Lead	750	130	130
Mercury (inorganic)	3600	750 80	450
Selenium	1800	230	170
	13000	120	130 350
Heavy Metals Affecting Plants (phytotoxic)		Residential without plant	330
Copper		uptake	
Zinc	45700	2080	111
	188000	8250 CIEH Generic Assessment Criteri	

Under current statutory requirements, the soil would not be deemed suitable for the growing of fruit and vegetables and could potentially pose a long term human health risk. It is feasible that further sampling may result in lower heavy metal levels being determined, although I would consider this an unlikely event, with the three retrieved samples providing a fair representation of the overall site levels.

I would recommend that if the site were to be utilized for allotment purposes, that 'certified clean' soil be imported within the site area. I would be happy to advise you of the correct remediation procedures if so

Please do not hesitate to contact me if you have any questions regarding the above.

Yours Sincerely,

Jeremy R Williamson

Dip CSM, HND (Industrial Mining Geology)

T.A. Lille

(Managing Director)

Approved Site Investigations A417 / POR

> Site Location: Report Fao:

Client:

Mr J. Williamson

Laboratory Test Report

Reference: A417 / POR

Page 1 of 1



Client Reference Location Sample Number Depth Date of Sampling Material Description Determinand ENV Metais Suite Arsenic (As) Cadmium (Cd) Chromium (Cr) AD AE16 Copper (Cu) Metury (Hg) AD AE16 Nickel (Ni) AD AE16		ACSE/2570/1	ACSE/2570/2	ACETIOTION)
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(Cd) AD	mg/kg	*	198		
(Cr) AD U) AD G) AD		200		130	
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g) AD AD		3 5	OF	35 +	
AD AD		103	157	129 *	
ED.			0.18		
	mg/kg	* 12	34	200	
Lead (Pb) AE16	mg/kg	*	181	9	
Selenium (Se) AE16	ma/ka		5	* 9	
	0	; ;	. 4.	1.9	
₹	mg/kg	497	540 *	260 "	
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		. 7.0	6.7	6.6	

SC - Sub Contracted & demotes analysis covered by sub-contractors UKAS accreditation. AS - Accreditation Status * denotes analysis covered by our UKAS accreditation.

Remarks: None

D = sample tested (44), condition. AD = sample tested in air died condition. AR = sample tested in as received condition.

denotes analysis covered by sub-contractors MCFRTS accreditation

All test values reported on a dry weight basis. IHP = r House Procedure / Calculation

† derctes analysis covered by our VCERTS accreditation.

10/02/2010 Analysis Completed: Report Date:

Approved :

Approved Signatories [] S J White Managing Director [<] M Rowley Laboratory Manager [] D Faulkner Quality Manager 10/02/2010

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