


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	Environmental Scientifics Group Limited	
	Issue No: 021 Issue date: 29 February 2012	
	Occupational and Environmental Field and Laboratory Services Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ	Contact: Mr D.Cowper Tel: +44 (0)1283 554462 Fax: +44 (0)1283 554422 E-Mail: david.cowper@esg.co.uk Website: www.esg.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Occupational and Environmental Field and Laboratory Services Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ Local contact Mr D.Cowper Tel: +44 (0)1283 554462 Fax: +44 (0)1283 554422 Email: david.cowper@esg.co.uk	Gas Analysis	A
Address Occupational and Environmental Field and Laboratory Services Bretby Business Park Ashby Road Burton-on-Trent Staffordshire DE15 0YZ Local contact Mr D.Cowper Tel: +44 (0)1283 554462 Fax: +44 (0)1283 554422 E-Mail: david.cowper@esg.co.uk	Occupational Hygiene & Environmental Monitoring Analysis	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Sites	Gas Sampling and Analysis	B
Customer Premises	Water Sampling and Analysis	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
POLLUTANTS and EFFLUENTS: ATMOSPHERIC Passive dust samples from deposit and directional dust gauges and monitors	<u>Physical Tests</u>		
	Dust deposition rate	Documented In-House Method FD01 based on BS 1747:Part 1:1969(91) BS 1747:Part 5:1972(91) BS 872:2005	A
	Obscuration of surfaces Dust flux	Documented In-House Method FD02 based on BS 1747:Part 5:1972	A
Rainwater	Soiling	Documented In-House Method FD05 based on Beaman & Kingsbury Reflectometer Method	A
	<u>Chemical Tests</u>		
	pH Electrical Conductivity (Dissolved Solids)	Documented In-House Method FD03 based on BS 2690:Part 109:1984(89) BS 6068:Section 2.35:1993 and ISO 7888	A
POLLUTANTS: ATMOSPHERIC Dust samples collected by pumped systems	<u>Health and Hygiene</u>		
	<u>Analysis</u>		
	Mass of respirable airborne dust (Coal mines)	Documented in House Method MORD 1 based on MDHS14/3 (gravimetric) and The Coal Mines Control of Inhaleable Dust Regulations 2007	A
Filter samples	Mass of total and respirable dust	Documented In-House Method MORD 2 based on MDHS 14/3 (gravimetric)	A
	Mass of total inhalable dust and particulate matter	Documented In-House Method MORD 2 based on MDHS 14/3	A



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POLLUTANTS: ATMOSPHERIC (cont'd)	<u>Chemical Tests</u>		
Filter samples (cont'd)	Mass of welding fume	Documented In-House Method MORD 2 based on BS EN ISO 10882-1:2001	A
	Quartz and Cristobalite in respirable dust	Documented In-House Method MDRQC1 using FTIR spectrometry based on MDHS 101, February 2005	A
DUST and PARTICULATES	<u>Qualitative Characterisation</u>		
Dust Gauges and Environmental Deposits	Qualitative analysis in order to differentiate Sand, Coal, Amorphous dirt (Aluminosilicates), Calcium Minerals, Fly-ash, Partially combusted carbonaceous materials, plant/animal fragments	Documented In-House Method using SEM/EDS, No SEMDG7	A
AMBIENT AIR	<u>Chemical Analysis</u>		
	Carbon dioxide Carbon monoxide Oxygen Methane Nitrogen (by difference)	Documented In-House Method using non-dispersive infra-red and paramagnetic analysers (GAS01)	A
	Carbon dioxide Carbon monoxide Oxygen Methane Nitrogen (by difference)	Documented In-House Method using non-dispersive infra-red and paramagnetic analysers (GAS10)	B
	Radon	Documented In-House Method using scintillation counter (GAS13)	A
GAS SAMPLES Including: LANDFILL GAS NATURAL GAS DRAINED GAS	<u>Chemical Analysis</u>		
	Carbon dioxide Carbon monoxide Oxygen Methane Nitrogen (by difference)	Documented In-House Method using non-dispersive infra-red and paramagnetic analysers (GAS01)	A



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GAS SAMPLES Including: LANDFILL GAS NATURAL GAS DRAINED GAS (cont'd)	<u>Chemical Analysis</u> (cont'd)		
	Hydrogen Helium Nitrogen Oxygen	Documented In-House Methods using gas chromatography with thermal conductivity detector (GAS02)	A
	Methane Ethane Propane Butane Pentane Hexane Heptane Octane	Documented In-House Methods using gas chromatography flame-ionisation detector (GAS03)	A
	Gross and Net Calorific Value for C ₁ to C ₈ Hydrocarbons	(GAS03 Calculated value)	A
LANDFILL GAS	<u>Sampling</u>		
	Trace components Bulk gases monitoring	Documented In-House Method (GAS15) based on Environment Agency publication LFTGN 04 using adsorbent tube and Tedlar bag	B
	<u>Sampling and Analysis</u>		
	Surface methane emissions monitoring	Method using Flux Box and portable FID analyser (GAS14 LFTGN07)	B
	Walkover survey (ppm to %)	GAS14 using portable Flame Ionisation Detector (FID)	B
	<u>Chemical Analysis</u>		
	Carbon dioxide Helium Hydrogen Methane Nitrogen Oxygen	Documented In-House Method using gas chromatography with thermal conductivity and flame ionisation detectors (GAS09)	A



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WASTE WATERS Groundwater, Surface water, Fresh water, Leachate (from landfill), Trade effluent (to controlled water)	<u>Sampling</u> "Spot" sampling of Lakes, streams, rivers, groundwaters and waste waters	Documented In-House Method GAS16	C
	<u>Analysis</u> pH Conductivity Dissolved Oxygen Turbidity Temperature	Documented In-House Method GAS16	C
WASTE WATERS Trade effluent to controlled water and sewer Untreated sewage Treated sewage effluent	<u>Sampling</u> For: Chemical Testing	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - sampling and chemical testing of untreated sewage, sewage effluent and trade effluent	
		Method GAS 16 using manual spot sampling	C
Trade effluent to controlled water and sewer	<u>Chemical Testing</u> pH Conductivity Temperature	Documented In-House Method GAS16	C
END			