


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING</p> <p>1764</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>BAE Systems Properties Ltd.</p> <p>Issue No: 040 Issue date: 20 May 2021</p>	
	<p>10/11 Adlington South Business Park Adlington Lancashire PR7 4JR</p>	<p>Contact: Mr D Poole Tel: +44 (0)3300 488680 E-Mail: david.poole@baesystems.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
[ISO/IEC 17025] SOILS	<p><u>Chemical Tests</u></p> <p>NC (Nitrocellulose)</p> <p>NC (Nitrocellulose)</p> <p><u>Explosives (residential levels)</u> HMX RDX EGDN Tetryl NG (Nitroglycerin) TNT PETN HNS 2,6-DNT 2,4-DNT</p> <p>Picric Acid Picrite</p>	<p>Documented In-House Methods:</p> <p>Method No ESAL/QC/4, Part a and l, using solvent extraction followed by colorimetric test</p> <p>Method No ESAL/QC/4, Part a and m using solvent extraction followed by Differential Scanning Calorimetry</p> <p>Method No ESAL/QC/4, Part a, j and k, using solvent extraction and HPLC with UV detection</p> <p>Method No ESAL/QC/4 Part a and HPLC Soils using solvent extraction and HPLC with UV detection</p>



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<p>[ISO/IEC 17025]</p> <p>SOILS (cont'd)</p> <p>(analysis on an as received basis)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p><u>Explosives</u> HMX RDX EGDN Tetryl NG (Nitroglycerin) TNT PETN HNS 2,6-DNT 2,4-DNT</p> <p><u>Polyaromatic Hydrocarbons (PAHs):</u> Fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Pyrene Benzo(a)anthracene Chrysene Dibenzo(a,h)anthracene Total PAH (Sum of 16 above)</p>	<p>Documented In-House Methods:</p> <p>Method No ESAL/QC/4_Exp_as_received, using solvent extraction and HPLC with UV detection</p> <p>Method No ESAL/QC/4, Part a and s, using solvent extraction and GC-MS</p>



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<p>[ISO/IEC 17025]</p> <p>SOILS (cont'd)</p>	<p><u>Chemical Tests</u> (cont'd)</p> <p><u>Banded Aromatic and Aliphatic Extracted Petroleum Hydrocarbons (EPH):</u> Benzene Toluene Ethyl Benzene <i>m+p</i>-Xylene <i>o</i>-Xylene MTBE C₆-C₇ (Benzene) Aromatics >C₇-C₈ (Toluene) Aromatics >EC₈-EC₁₀ Aromatics >EC₁₀-EC₁₂ Aromatics >EC₁₂-EC₁₆ Aromatics >EC₁₆-EC₂₁ Aromatics >EC₂₁-EC₃₅ Aromatics C₅-C₆ Aliphatics >C₆-C₈ Aliphatics >C₈-C₁₀ Aliphatics >C₁₀-C₁₂ Aliphatics >C₁₂-C₁₆ Aliphatics >C₁₆-C₂₁ Aliphatics >C₂₁-C₃₅ Aliphatics</p> <p><u>Explosives</u></p> <p>Nitrobenzene</p> <p>2-Nitrotoluene 4-Nitrotoluene</p> <p>3-Nitrotoluene</p>	<p>Documented In-House Methods:</p> <p>Method No ESAL/QC/4 parts a and TPHCWG, using GC-MS and GC-FID</p> <p>Method No ESAL/QC/4 MNT Soils using LC-DAD</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
[ISO/IEC 17025] SURFACE and GROUND WATERS	<u>Chemical Tests</u> Picric Acid Picrite Nitrobenzene 2-nitrotoluene 4-nitrotoluene 3-nitrotoluene	Method No ESAL/QC/4, part HPLC Waters, using pre concentration and HPLC with UV detection Method No ESAL/QC/4 MNT Waters using LC-DAD
SURFACE and GROUND WATERS	Explosives HMX RDX EGDN Tetryl NG (Nitroglycerin) TNT 2, 6 DNT 2, 4 DNT PETN	Method No ESAL_QC_4HPLC DAD Waters, using HPLC, solid phase extraction and diode array detector



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[MCERTS]	<u>Chemical Tests</u> (cont'd)	Documented In-House Method to meet the requirements of the Environment Agency MCERTS Performance Standard - Chemical Testing of Soils (cont'd)
SOILS (cont'd)	<u>Polyaromatic Hydrocarbons (PAHs)</u> (cont'd) Dibenzo(a,h)anthracene Total PAH (Sum of 16 above)	Method No ESAL/QC/4, Part a and s, using solvent extraction and GC-MS
	<u>Explosives:</u> Nitrobenzene 2-Nitrotoluene 4-Nitrotoluene 3-Nitrotoluene	Method No ESAL/QC/4 MNT Soils using LC-DAD
END		