


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 7569 Accredited to ISO/IEC 17025:2017	Chief Constable of South Wales Police	
	Issue No: 032 Issue date: 29 March 2021	
	Joint Scientific Investigation Unit South Wales Police HQ Cowbridge Road Bridgend CF31 3SU United Kingdom	Contact: Mr Steven Robinson Tel: +44 (0)1656 655 555 E-Mail: Steven.Robinson@South-Wales.pnn.police.uk
Testing performed by the Organisation at the locations specified		

Laboratory locations:

Location details	Activity	Location code
Address Joint Scientific Investigation Unit South Wales Police HQ Cowbridge Road Bridgend CF31 3SU United Kingdom	Local contact Mr Steven Robinson Tel: +44 (0) 1656 655 555 E-mail: Steven.Robinson@south-wales.pnn.police.uk	Forensic Analysis Quality Management A



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DETAIL OF ACCREDITATION

Delivery of the forensic services, listed below, through the Joint Scientific Investigation Unit in collaboration with South Wales Police and Gwent Police

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES Any material	<u>Forensic Testing</u>	The organisation has demonstrated adherence to the relevant requirements of the Forensic Science Regulators Code of Practice and Conduct in relation to their Forensic Activities	All
	<u>Forensic Analysis</u>		
	Searching for: - Blood	Document in house methods DNACR/SOP/17 using: - Visual examination - Low power microscopy - chemical testing (see below)	A
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials: - Blood - Cellular material	Documented in house methods DNACR/SOP/06 using - Swabs and swabbing - Minitaping - Cutting	A
	Presumptive testing for Blood via detection of: - Enzyme Activity (Peroxidase)	Documented in house method DNACR/SOP/17 using - Visual Examination - KM (Kastle Meyer)	A



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<p>DRUGS (and materials suspected of containing drugs)</p>	<p><u>Forensic Analysis</u></p> <p>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</p> <p>Identification of Cannabis, cannabis resin and cannabis products</p> <p>Identification of:</p> <ul style="list-style-type: none"> - Amphetamine - Cocaine - Diamorphine (Heroin) - Methylenedioxy amphetamine (MDA) - Methylenedioxyethyl amphetamine (MDMA) - Methylenedioxyethyl amphetamine (MDEA) - Ketamine - Methadone <p>Quantification of :</p> <ul style="list-style-type: none"> - Amphetamine - Cocaine - Diamorphine (Heroin) 	<p>Documented in house method (DRUG/SOP/01 & DRUG/SOP/05) using:</p> <ul style="list-style-type: none"> - Spot test (NEGMS)MicroscopyGC-MS <p>Documented in house method (DRUG/SOP/02 & DRUG/SOP/05) using</p> <ul style="list-style-type: none"> - Spot Tests (Marquis Reagent and Cobalt Thiocyanate Reagent) - GC-MS <p>Documented in house method (DRUG/SOP/06) using</p> <ul style="list-style-type: none"> - HPLC-DA 	<p>A</p> <p>A</p> <p>A</p>



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MARKS AND IMPRESSIONS Fingermarks Any material which is capable of retaining friction ridge marks	<u>Forensic Analysis</u> Enhancement of fingermarks and palm marks	Documented In-House Methods using chemical enhancement and lighting techniques <ul style="list-style-type: none"> - Cyanoacrylate (CNA) Fuming (FDU-SOP-02) - Basic Yellow 40 (BY40) Ethanol and aqueous formulations (FDU-SOP-04) - 1,8-Diazafluoren-9-one (DFO) (FDU-SOP-05) - Ninhydrin FDU-SOP-03 - Powdering Techniques: black, aluminium and black magnetic FDU-SOP-14 - Powder suspensions: - Black Iron, black carbon and white (FDU-SOP-13) 	A	
		Documented In-House Methods for imaging / digital capture (FDU-SOP-06)	A	
		Documented In-House methods using lighting techniques (FDU-SOP-11) <ul style="list-style-type: none"> - White light and filtered sources - High energy light sources - Crimelites Blue ($\lambda = 420-470\text{nm}$), Green ($\lambda = 480-560\text{nm}$) 	A	
	Developed fingerprint marks	Determination of the presence of friction ridge characteristics for the purpose of subsequent comparison	Documented In-House methods using visual examination	A
	Fingermark and palm mark friction ridge detail	Visual analysis, comparison and evaluation of recovered friction ridge detail with finger, thumb and palm from: <ul style="list-style-type: none"> - Known ink TENPRINTS - Known electronic TENPRINTS 	Documented In-House method (FPT/SOP/3) using visual examination, low power magnification, comparators, dimensional measurements and reference databases.	A
	<u>Opinion and Interpretation</u> The evaluation of features between Fingermark and palm mark friction ridge detail	Documented In-House method (FPT/SOP/3) using <ul style="list-style-type: none"> - Personal experience - Database 	A	



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FOOTWEAR	<u>Forensic Analysis</u>		
	Coding of scene marks	Documented in house method (FIU/SOP/02) – including use of National Footwear Reference Collection (NFRC)	A
	Coding of Custody prints taken from suspect footwear using gross features	Documented in house method (FIU/SOP/01) – including use of National Footwear Reference Collection (NFRC)	A
	Screening of suspect footwear by pattern type and size	Documented in house method (FIU/SOP/03 & FIU/SOP/10) – includes the use of test prints, enhancement techniques, visual comparison, low power microscope	A
	Enhancement of footwear marks recovered from scenes	Documented in house method (FIU/SOP/04, 06 & 10) using <ul style="list-style-type: none"> - powders - ESLA - ESDA - gel lifting - gel scanning - digital capture photography 	A
	Production of test marks from suspect footwear	Documented in house method (FIU/SOP/03) using <ul style="list-style-type: none"> - Dynamic oil and magnetic powder on paper - Static powdering - 3-D test impressions (various media including Bio-foam) using dental stone casting 	A
Assessment, comparison and evaluation of footwear marks with scene marks	Documented in house method (FIU/SOP/03) using <ul style="list-style-type: none"> - Visual comparison - Dimensional measurement 	A	



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FOOTWEAR (cont'd)	<u>Opinion and Interpretation</u> The evaluation of the significance of any matching and non-matching features between the footwear scene impression and reference/control footwear marks	Documented In-House method (FIU/SOP/03) using <ul style="list-style-type: none"> - Personal experience - database 	A
DIGITAL DEVICES AND DATA	<u>Forensic Analysis</u>		
CCTV Systems	Recovery of CCTV footage from digital CCTV system by: <ul style="list-style-type: none"> - Export video to Optical Media & USB (exporting files using CCTV system, copying via analogue or digital output) 	Documented in-house method(s) (IMG/SOP/04) using: <ul style="list-style-type: none"> - Manual interaction with system and / or device 	A
Digital Video including CCTV footage <ul style="list-style-type: none"> - Compact discs - Digital versatile discs - USB flash drives - Memory cards 	Digital video conversion (<i>viewing and presentation purposes</i>)	Documented In-house methods (IMG/SOP/05 and IMG/SOP/06) : <ul style="list-style-type: none"> - Adobe Premier - FFMPEG - Proprietary Software - TechSmith Camtasia 	A



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FIREARMS	<u>Forensic Analysis</u>		
Ammunition	Ammunition and component identification and legal classification	Documented In house method (FFE/SOP/03 & FFE/SOP/10) using: - Weighing - length measurement use of known samples or standard reference data.	A
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968)	Documented In house method (FFE/SOP/03 & FFE/SOP/04) using comparison with known samples, reference standards and publications	A
	Determination of Kinetic Energy of projectiles	Documented In house method (FFE/SOP/05) using chronograph and balance	A
	Test Firing to assess the functionality of weapons and/or ammunition.	Documented In house method (FFE/SOP/04 & FFE/SOP/10) using suspect or reference guns and ammunition	A
Electrical Shock Devices	Identification, classification and function test	Documented In house method (FFE/SOP/11) using visual examination, function testing and measurement of spark gap	A

END