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## Technical Procedure for General Chemical Analysis

- 1.0 Purpose** – This procedure shall be followed for the examination of miscellaneous samples not included in another examination area.
- 2.0 Scope** – This procedure applies to all chemistry-related exams not specifically covered under another procedure within Trace Evidence Section.
- 3.0 Definitions** – N/A
- 4.0 Equipment, Materials, and Reagents** – None specified. These shall be determined on a case-by-case basis.
- 5.0 Procedure**
- 5.1 Analytical Approach**
- 5.1.1** While the Trace Evidence Section sees some types of evidence on a routine basis, occasionally items are submitted that require unique procedures or method development.
- 5.1.2** Good scientific principles and a logical analysis scheme shall be applied to those evidence types that have not been encountered before based upon the type and amount of evidence submitted and the case information received.
- 5.1.3** Necessary instrumentation and/or reference materials shall be used to help identify the samples. Reference materials may be submitted as comparison items in the case.
- 5.1.4** Notes shall reflect the steps taken in the examination.
- 5.1.5** It may not be possible to identify an unknown fully. However, general classification is usually possible. When comparison samples are submitted or obtained, it may be possible to say that the unknown shares the same physical and/or chemical properties as the comparison sample.
- 5.2 Standards and Controls** – Where applicable, positive and negative controls shall be run.
- 5.3 Calibrations** – This procedure does not require any calibrations or performance checks. However, the procedure may utilize instruments that require performance checks. See the individual technical procedures for the operations of those instruments.
- 5.4 Maintenance** – No maintenance is required in this procedure. However, the procedure may utilize instruments that require maintenance. See the individual technical procedures for the operations of those instruments.
- 5.5 Sampling and Sample Selection**
- 5.5.1** No sampling is performed. When sample selection occurs, it shall be based on the Forensic Scientist's training and experience.

**5.6 Calculations – N/A**

**5.7 Uncertainty of Measurement – N/A**

**6.0 Limitations – N/A**

**7.0 Safety – Safe laboratory practices shall be used.**

**8.0 References – N/A**

**9.0 Records – N/A**

**10.0 Attachments – N/A**

| Revision History |                |                                   |
|------------------|----------------|-----------------------------------|
| Effective Date   | Version Number | Reason                            |
| 09/17/2012       | 1              | Original ISO Document             |
| 10/18/2013       | 2              | Added issuing authority to header |
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