APPENDIX A GUIDELINES FOR THE PRESENTATION OF SCOPES

1. <u>Introduction</u>

1.1 This Appendix provides guidance in the preparation of the Scope of Measurement, Testing, or PT Provider (Scope) to be presented for submission to the Standards Council of Canada (SCC) Program for Accreditation of Laboratories - Canada (PALCAN) with an application for accreditation.

1.2 The Scope becomes an Accreditation Document and is intended to clearly and unambiguously list specific testing or measurement capabilities or parameters for PT providers for which an organisation is accredited. Accreditation is site specific and even when part of a larger organisation the accredited unit must be identified on the Scope.

1.3 The Scope may contain a single test or many test method or calibration capabilities in a range of fields of testing or measurement, or parameters (PT provider).

1.4 When the SCC accredits an organisation, the designation of the Scope becomes Scope of Accreditation.

1.5 The accredited capabilities of the organisation will be identified under each Product/Service Class category for testing and PT providers' scopes or under measurement parameter for calibration scopes. This is further detailed for testing and PT providers' scopes under section 6 of this document.

1.6 Flexible scopes are permitted for laboratories that have PSA TMD and/or PSA Forensics in their Scopes. Other laboratories may be eligible and shall be considered on a case by case basis. This will depend on a number of issues including expertise of the laboratory in the area requested for the flexible scope, assessment team members and time needed to assess such scopes. The exact nature and breadth of the flexible scope and applicable annual fees for flexible scopes will be determined at that time. The applicable fees will be determined by several factors, including the number of team members and time required to assess the proposed scope.

2. <u>Definitions</u>

Non-routine Analysis:

Ad-hoc or one-of-a-kind work that is carried out for a specific purpose and may reflect a degree of innovation and limited notice.

Typically it is used in the context of work on out of the ordinary samples where established methods of analysis are unsuitable. These analyses required either significant adaptation of established methods, new method development or the establishment of innovative approaches.

NOTE: Non-routine test methods may only be accredited under the requirements of the SCC PSA-TMD program (CAN-P-1595).

Routine analysis Conducted Infrequently:

The analytical requirement has been encountered before. However, the testing is not in regular use or has low or very occasional sample requests, e.g. seasonal. A suitable validated accredited test method for solving the issue exists; however, specific quality assurance and quality control measures are required prior to the commencement (reuse) of the testing on customer samples and need to be defined by the laboratory in a documented procedure.

NOTE: To retain the scope listing of an "accredited routine test conducted infrequently" the testing or calibration laboratory shall comply with SCC documents (see CAN-P-1630 section 5.4.1) and the PSA document, if applicable.

3. <u>Purpose and application</u>

3.1 This Appendix will help organisations to prepare their proposed testing scope in application for accreditation and avoid delays caused by revisions to the proposed scope during the accreditation process. The criteria in this Appendix also apply to maintaining accredited scopes.

3.2 The laboratory initially drafts the Scope for which accreditation is sought. Testing scopes for laboratories being serviced by SCC and a Partner will be finalized after review and discussions between SCC, the pertinent Partner and the laboratory. The Scopes for calibration laboratories will be finalised by discussions between NRC/CLAS and the laboratory.

3.3 SCC recognises that it may be impractical, in some cases, to specify precise details for every test for which accreditation is sought. In such cases, the Scope will be adapted to the situation.

3.4 The guiding principle is that the Scope of Accreditation must state capabilities as clearly and unambiguously as possible in order not to be misleading in any way about the accredited capabilities.

3.5 The scope may be revised following an assessment or reassessment visit. This can consist of either a suitable reduction or could, when acceptable with both parties, result in added capabilities. The revision can also be editorial to ensure the criteria in this Appendix, as well as those for Calibration Laboratories under CLAS are met.

4. <u>Restriction for the Content of a Scope</u>

4.1 Only those tests for which a laboratory can demonstrate competence in compliance with the SCC requirements, those of the test method and the requirements of the applicable conformity standard will be listed in the Scope of Accreditation.

4.2 In general, SCC does not accredit activities of a subjective or interpretative nature.

CAN-P-1570 Appendix A	
JUNE 2010	

4.3 SCC grants accreditation to a laboratory for those activities that the laboratory itself is competent to carry out. Laboratories are required to be capable of demonstrating that they themselves perform the test or measurement for which accreditation is sought or granted. Accreditation can only be granted for tests or measurements that a laboratory can demonstrate, by objective evidence, that they have conducted themselves.

5. <u>Acceptable Scope Content</u>

The scope of accreditation must be detailed as much as possible and give the specific identification of all the testing methods to be accredited. Test methods occasionally refer to other test methods to conduct portions of the test procedure. These are referred to as nested methods. When a laboratory needs to specifically refer to a nested method on a report, or when a laboratory needs to be considered accredited specifically for the nested method, the nested method must also be listed on the scope in addition to the principle method. Refer to **Note 2** on the following page.

A laboratory must refer to the identification of a published method in its scope of accreditation only if it applies it without modification or with minor editorial modifications (i.e. a translation of a published testing method). A laboratory using an in-house designation/title for a method that results in conducting the test according to a published method verbatim, must list the published method designation and title on the scope.

Modified published testing methods are considered in-house methods and are identified differently; validation in support of the modification is required. If the method is an in-house method, largely based on a published method, the in-house designated title shall be used on the scope. The laboratory will be required to produce full validation in support of the modification and will need to use the designation as listed on the scope of accreditation where the method is referenced in the reports.

The accreditation, when granted, will relate solely to tests listed in the approved scope of accreditation. The tests on the scope of accreditation must be performed by the laboratory and the laboratory must possess in-house capabilities (Note 1) to do so. Acceptable tests for accreditation may include any of the following:

a. Test methods contained in standards published nationally or internationally by accredited or recognised standards-development organisations. (Note 2)

b. Manufacturer published documents containing pertinent information on the use of major test equipment, which essentially constitute an element of the test method, such as a set of analytical instrument instructions or an equipment operating manual.

c. Test methods/procedures/supplementary instructions developed internally or derived from other test methods provided they are properly documented, maintained and are supported by validation data.

<u>Note 1:</u> In-House Capabilities is defined as: the applicant or accredited laboratory possesses at the accredited location the equipment, qualified personnel and records of actual tests conducted using that equipment and personnel.

<u>Note 2:</u> Laboratories can only be accredited for tests for which they have "in-house capabilities" and tests that are actually performed at the location of the accredited laboratory. Laboratories listing compendiums or

standards or other published methods containing multiple tests or techniques for which they do not have in-house testing capabilities for all, must specifically either identify chapters, sections, clauses or appendices for which they do not have "in-house capabilities" using either:

a. "<u>Except for:</u>" and listing specific tests within the standard or compendium for which the laboratory <u>does not</u> <u>have capabilities</u> by reference to chapter/section or clause number and complete title; or

b. "<u>Only for:</u>" and listing specifically those tests within the standard or compendium for which the laboratory <u>has</u> <u>capabilities</u> by reference to chapter/section or clause number and complete title.

Where standards, such as product standards, are listed, the laboratory is only considered accredited for the testing elements in those standards for which capabilities reside.

6. <u>Preparation of the Proposed Scope</u>

6.1 List of Test Methods

a. Prepare the list of tests, for which accreditation is sought: list the exact designation/the reference number followed by the exact published title of the method or standard in the language of origin;

b. The year designator for a standard or method is to be included <u>only if</u> a superseded method is still being used for a specific application. All other methods are to be listed without year as it is understood that the laboratory always uses the most recent revision of each listed method unless otherwise specified by date.

c. Review and consider the requirements and specifications in section 4 of this document.

d. For microbiology testing methods which are internal to the laboratory, the name of the organism shall be written in full in the title of the method included in the scope.

6.2 The PALCAN Classification System for the Test Methods

The classification for testing scopes is based on the *Harmonised Commodity Description and Coding System* (H.S.) of the World Customs Organisation (WCO). An ideal system would try to follow as closely as possible the H.S. terminology and codification.

The classification system SCC/PALCAN uses is named the Product and Services by Class (PSC) and is a transitional terminology that lies between the H.S. and the classifications of accrediting bodies from other countries with which SCC attempts to harmonise.

This system enables grouping tests by categories and sub-categories which in turn enables a standard classification for all testing scopes. This system is also used to classify Technical Assessor areas of expertise, thus facilitating matching suitably qualified Technical Assessors with the scope of any specific laboratory. While the PSC system may appear very large at a glance (over 400 categories) most laboratories use only a small segment of the classification system. This section is to introduce the structure and section 6.3 will provide a constructive approach that will facilitate the use of the classification system. Section 9 of this Appendix contains the complete list of the PSC classification system including all sub-categories.

a. There are fifteen (15) principle categories that classify all tests. These are named Product Service Class (PSC) Codes and they appear in the scope as

UPPER CASE BOLD UNDERLINE

b. Each PSC is in turn divided into sub-categories that are more specific. These are named Major Sub-Headings and they appear as

Title Case Bold Underline

c. The Major Sub-Headings are yet again subdivided into Minor Sub-Headings and they appear as

Title Case Bold

d. Where any Major or Minor heading does not suit, the laboratory may create a Miscellaneous Heading that should appear <u>in brackets</u> as

(Title Case Bold)

6.3 Instruction for Building the Scope

a. Use the list of tests developed in section 6.1 as the working document that will be used to produce the Proposed Scope.

b. Review the list in Section 9 of this document. For convenience, the principle or PSC Headings have been shaded. The best result will be achieved by becoming familiar with the list in section 9 and identifying the PSCs from this list that apply to the tests of the proposed scope. When a minor heading is selected, it is important to consider the PSC and Major Heading that are associated; since some minor headings appear under more than one PSC and consequently have different interpretations.

c. There are two (2) ways of proceeding from this point: either move the Tests from the list under the correct Headings or import the appropriate PSC under which the tests will be listed. It is suggested to import the PSC and move the tests under the correct headings:

d. Step 1: copy paste the first applicable PSC with all its headings (Majors and Minors) onto the document where the tests are listed.

e. Step 2: eliminate the Minors that will not be used.

f. Step 3: retain the Majors that have minors remaining and retain any stand alone Majors that are useful.

g. Step 4: move the tests that apply to that PSC under the appropriate remaining headings.

h. Step 5: repeat for the next and subsequent applicable PSCs until all the tests are classified and consider the additional information in section 6.4 below.

6.4 Other things to consider

a. As a general rule, tests are listed under the appropriate Minor Sub-Headings. When all or most of the Minor Sub-Headings apply, the tests should be listed under the Major Heading, without bothering to use the minor subheadings.

b. A Minor heading must be listed with its corresponding Major and PSC: this is a cascading system. Minor sub-headings are specific and cannot be exchanged between Major sub-headings or PSCs. The same applies for Major sub-headings.

c. Each of the PSC, Major or Minor sub-headings may have an optional description added immediately below. This is a free form text that the laboratory may use to characterize/describe that section. The only restriction is that it cannot be misleading with regards to the actual testing capabilities associated with the heading nor constitute publicity in any manner. PALCAN reserves the right to edit these descriptions as deemed appropriate. This type of format is ideal when multiple Minor or Major sub-headings apply to a group of tests.

d. A test may not be listed more than once even if multiple categories apply. For these cases the test is to be listed under the most common heading. The other applicable/related headings are then listed with a reference to the heading where the test is listed.

7. PALCAN Fields of Testing and Description

A *Field of Testing* is defined as a recognised sphere of science, engineering or technology that describes a general area of related testing activities for classification purposes. These are different from the PSCs and are a more general classification. There are ten (10) Fields of Testing and these are as follows:

Acoustics and Vibration: Measurement of noise, sound and vibratory motions; tests on acoustic and vibration measuring equipment; measurement of acoustic and vibration effects on, and properties of, materials, assemblies and structures; testing of insulating materials, and devices intended to protect against noise and vibrations.

Biological: Biological, microbiological and biochemical testing and measurement for the examination of foods, drugs and pharmaceutical products, including testing for environmental, medical and veterinary purposes.

Chemical/Physical: All methods of chemical analysis and detection, including instrumental and automated tests, associated physical tests such as viscosity and surface tension determinations, and calibration of the testing equipment involved by means of standard reference materials.

Electrical/Electronic: Measurement of electrical quantities and parameters, including tests on all types of electronic equipment and components, electrical machinery, appliances and devices such as luminaries.

Forensic: Specialised investigation services for objective examination of evidence gathered to determine compliance with or contravention of laws, or otherwise to be presented in court when necessary, and always conducted under enhanced levels of security and with demonstrable and unequivocal continuity of sample handling.

Ionizing Radiation: Detection and measurement of all types of ionizing radiation and radioactivity, including X-rays, gamma rays, other products of nuclear fission and fusion, and all related dosimetry testing.

Mechanical/Physical: Measurement of strength of materials and assemblies and related properties such as surface hardness, pressure and metallographic parameters, and including determination of aerodynamic, hydraulic and pneumatic parameters.

Non-Destructive Examination: Direct examination of materials, components, assemblies and structures by such specialised techniques as radiography, ultrasonics, penetrants, magnetic particles and eddy currents, to detect and locate discontinuities without affecting the fitness for use of the examined article.

Optics & Optical Radiation: Testing of optical and photometric properties and parameters; measurements made with and on optical and photometric equipment and instruments; measurement of colour and surface smoothness (reflectance, gloss); measurements involving visible (light) and near-visible (infrared, ultra violet) wavelengths of radiation.

Thermal & Fire Resistance: Measurement and detection of heat energy, temperature, thermal conductivity/resistivity and heat capacity of materials and objects; flammability, fire resistance and burn rate testing of materials and assemblies; testing of heat actuated devices and thermally protective products including fire prevention, fire protection, fire fighting equipment and clothing, and the specific materials used.

8. PALCAN Program Specialty Areas (PSA)

Program Specialty Areas (PSAs) are specific technical fields of measurement or testing or disciplines within which a number of fields of testing combine to allow the articulation of requirements specific to that PSA for the accreditation of laboratories seeking recognition of competence within the PSA. To be considered a PSA within the PALCAN program, a need must be identified by a stakeholder group for specific technical interpretations of the requirements to CAN-P-4 (ISO//IEC 17025).

Checklists or rating guides to be used in the assessment of laboratories may also be developed in separate CAN-P documents.

The majority of secondary CAN-P documents (CAN-P-1500/1600 series) are available without charge on the SCC Laboratories web page as http://www.scc.ca/en/edocs/criteria-and-procedures/laboratory-accreditation by selecting the individual PSA from the quick links on the right hand side.

The following PSAs currently form part of the PALCAN program. They are briefly described and for more specific detail please refer to the CAN-P documents, or contact us at <u>info.palcan@scc.ca</u>.

Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP)

This PSA is intended for laboratories that perform testing of agriculture inputs such as seeds, feed and fertilizer, food, animals and plants for:

- a. Chemical analysis ranging from percent levels to trace levels, and
- b. Qualitative and quantitative microbiological analysis.
- c. Federally regulated animal diseases
- d. Federally regulated plant quarantine pests
- e. Seed testing for regulatory purposes

Accreditation under this PSA is the formal recognition by the Standards Council of Canada of the competence of a food, feed, fertilizer, animal health and plant pest -testing laboratory to perform and control this type of testing.

The Canadian Food Inspection Agency (CFIA) requires accreditation to CAN-P-4E by a CFIA recognized accreditation body such as SCC for all laboratories performing food testing to support specific regulatory requirements under the *CFIA Act* and these are identified in the AFAP Requirements named below.

CAN-P-1587 Requirements Accreditation of Agriculture Inputs, Food, Animal Health and Plant Protection Testing Laboratories

Calibration (in partnership with NRC/CLAS)

This PSA is for laboratories offering calibration services in specific measurement parameters. Laboratories accredited under this PSA may list their best measurement capabilities - the smallest uncertainties of measurement for which the laboratory is accredited. The total uncertainty of each accredited capability has a confidence level of at least 95% and includes the NRC Institute for National Measurement Standards (INMS) or other national metrology institute uncertainty. This best measurement capability also includes uncertainties associated with the measurements made by the accredited laboratory. Laboratories seeking accreditation under this PSA are to apply for such accreditation through NRC/CLAS. The CLAS contact is the Group Leader - CLAS: Ms. Georgette Macdonald, Tel.: (613) 991-4059, Fax: (613) 952-1394, Email: clas@nrc-cnrc.gc.ca.

Calibration measurement capabilities for accredited laboratories are listed on the Canadian Calibration Network web pages at the NRC/INMS: http://infoex.nrc-cnrc.gc.ca/inms/search_clas_e.html

The guidelines and requirements for calibration laboratories are found at: <u>http://www.nrc-cnrc.gc.ca/eng/services/inms/calibration-laboratory/requirement-documents.html</u>

NOTE: Calibration measurement capabilities for the calibration laboratories that are part of the program specialty area for the accreditation of National Metrology Institutes (NMI) are listed only the SCC website.

Environmental Testing (ET)

Accreditation under this PSA provides assurance that a laboratory is competent to carry out environmental analysis testing. The program is designed to ensure testing laboratories meet minimum quality and reliability standards and to ensure a demonstrated uniform level of proficiency among these testing laboratories. This includes, but is not limited to, the measurement of biological, chemical, physical, or toxicological characteristics of either the receiving environment or discharges to the receiving environment, and includes as appropriate, biological, chemical and physical fields of testing on the environmental surroundings (air, water, soil, flora and fauna) and waste (gaseous, liquid and solid) samples. Laboratories must successfully participate in the proficiency testing programs identified in the PSA document. This PSA program also enables Canada to better meet its obligations under international environmental and trade agreements that rely on environmental assessment and monitoring.

Accreditation under the PSA-ET specific requirements is the formal recognition by SCC of the competence of an environmental testing laboratory to manage and perform this type of activity.

CAN-P-1585 Requirements for the Accreditation of Environmental Testing Laboratories

Fasteners

This PSA is to allow formal recognition of the competence of laboratories that conduct testing of fasteners and include those fasteners covered by the US Fastener Quality Act.

Laboratories seeking accreditation under this PSA must first arrange for the implementation of contractual obligations with Collaborative Testing Services, Herndon, Virginia, USA, as prescribed by the US Fastener Quality Act. Applicant and accredited laboratories will require successful participation in twice-yearly proficiency testing activities in whichever of the following areas appear on their scope of testing: - Axial tensile; - Wedge tensile; - Rockwell Hardness; - Chemical analysis.

Guidelines: CAN-P-1581, Requirements for the Assessment of testing aboratories to meet the requirements of the US Fastener Quality Act

<u>Forensic</u>

This PSA allows for the accreditation of laboratories that provide analytical results of documented quality to the Canadian Courts of Law in both criminal and civil proceedings. Accredited laboratories demonstrate adherence to recognised practices and standards in the forensic sciences. Accreditation under this PSA program is the formal recognition by the Standards Council of Canada of the competence of a forensic testing laboratory to manage and perform the following types (disciplines) of forensic testing:

- a. Counterfeits;
- b. Firearms / Toolmarks;
- c. Forensic Biology / DNA;
- d. Forensic Chemistry / Trace Evidence;
- e. Forensic Drug Chemistry;
- f. Forensic Equine Drug Testing
- g. Forensic Toxicology;
- h. Questioned Documents Examination.

CAN-P-1578 Requirements for the Accreditation of Forensic Testing Laboratories;

Note: laboratories that are performing relationship testing should apply under the PSA Forensic.

Information Technology Security Evaluation and Testing (ITSET)

This PSA defines the additional requirements for accreditation of laboratories seeking recognition for testing in the areas of

- a. Common Criteria product and system evaluations;
- b. ITS product reviews;
- c. Secure electronic commerce application evaluations;
- d. Biometric device testing;
- e. Vulnerability and tiger team testing; and
- f. Specialized commercial security device testing.

This PSA is structured into specific ITS Approval Domains, each recognized by an ITS Competent Authority, such as the Communications Security Establishment (CSE) of the Government of Canada.

Guidelines: CAN-P-1591, Requirements for the Accreditation of Information Technology Security Evaluation and Testing Facilities

This PSA also includes those testing facilities seeking accreditation for conformity testing of cryptographic modules against FIPS PUB 140-2 Security Requirements for Cryptographic Modules. This document is a specific guideline that amplifies CAN-P-1591.

CAN-P-1621, Requirements for the Accreditation of Cryptographic Module and Algorithm Testing Facilities

Mineral Analysis

This PSA provides formal recognition of competence by the SCC of laboratories conducting mineral and mineral assay analysis in support of the mining and mining exploration industries. Applicant laboratories must successfully pass two rounds of proficiency testing provided by Natural Resources Canada's CANMET PTP-MAL

Proficiency Testing program prior to being assessed, and must successfully pass three proficiency test cycles before accreditation is granted.

CAN-P-1579, Requirements for the Accreditation of Mineral Analysis Testing Laboratories

Test Method Development & Evaluation and Non-routine Testing

Laboratories that conduct test method development, evaluation or non-routine testing may seek formal recognition of competence in the specific disciplines involved in this type of work from the SCC under this PSA. Applicant laboratories will normally be those involved in the planning, performance, management, and conduct of non-routine measurements in science, and test method development and evaluation. Accreditation will be restricted to those specific testing disciplines within which test methods are developed or evaluated or, within which non-routine testing is conducted.

Guidelines: CAN-P-1595, Requirements for the Accreditation of Laboratories Engaged In Test Method Development & Evaluation and Non - Routine Testing

Proficiency Testing (PT)

Proficiency Testing Providers that serve laboratories and groups of laboratories may seek formal accreditation of their competence in the provision of these services. Such formal recognition of competence from the SCC is provided under this PSA. Applicant organisations will normally be involved in the development and delivery of PT samples, and/or the analysis of PT results from these client laboratories. Accreditation will include examination of the competence of the organisations involved in sample production. Accreditation requirements are contained in CAN-P-43.

Checklist: F0413, Checklist for the Assessment of Proficiency Testing Providers.

9. List of Products and Services by Class (PSC) Codes

ANIMAL AND PLANTS (AGRICULTURE)

<u>Agricultural products:</u> (except food and chemicals) Cotton Linen Tobacco

<u>Animal and Fishery Products:</u> (except food) Feathers Furs Leathers

Foods and Edible Products: (Human and Animal Consumption) Animal or Vegetable Fats and Oils and Their Cleavage Products; prepared edible fats; animal or vegetable waxes **Beverages, Spirits and Vinegar Cereals and Products of the Milling Industry** Coffee, Tea, Maté, and Spices **Dairy Products Edible Fruits and Nuts Edible Vegetables and Certain Roots and Tubers** Eggs and Fish Feeds Meat and Edible Meat Offal Nutrition Labelling Preparation of Vegetables, Fruits, Nuts and Parts of Plants Preparation of Cereals, Flour, Starch; Pastry Cook's Products Sugars and Sugar Confectionery

<u>Unprocessed Milk:</u> Chemical Tests Microbiological Tests

Forestry Products:

Seeds:

Soils: Constituents and Nutrients Physical Parameters

Other (Specify): Veterinary

CHEMICALS and CHEMICAL PRODUCTS

<u>Chemical Compounds:</u> (not elsewhere specified) Inorganic

CAN-P-1570 Appendix A JUNE 2010

Liquid Organic

Chemicals for Agricultural Industry: Biocides Fertilizers Herbicides Insecticides

Pesticides <u>Chemicals for Food Industry:</u> Additives Minerals

Preservatives Vitamins

<u>Cleaning Agents:</u> Disinfectants Floor Polish Soaps & Detergents Wax Remover Water Treatments

Explosives: Ammunition Blasting Fireworks Powders

<u>Petrochemical Products:</u> (not elsewhere specified) Liquids

Pharmaceuticals and Cosmetics: Capsule Cream Drugs Injection Liquid Sterile Dressings Tablet

Polymers: (not elsewhere specified)

Other (Specify):

CONSTRUCTION

Building Constructions and Prefabricated Buildings: Airports Buildings Commercial

CAN-P-1570 Appendix A JUNE 2010

Dwellings Industrial Buildings

<u>Construction Materials:</u> (Excluding textile products) Caulking, Sealing and Glazing Compounds Ceiling Coverings Fasteners and Hardware (See also METALLIC and TEXTILES Sections) Fire Resistant Flammability Floor Coverings (See also WOOD Section) Insulating Materials Miscellaneous Construction Materials Panels (See also ELECTRICAL Section) Plumbing Products Roof Coverings Vapour Barriers, Water Proofing Membranes Wall Coverings Windows and Doors

Pipelines:

Prefabricated Assemblies and Kitchen, Office Sections: Cabinets Counters Frames Metallic Structures Trusses Ventilation Equipment

Road and Railway & Civil Constructions: Bridges Crossing Dams Embankments Pavement Overpasses/Trestles Rails Subways/Tunnels

Other (Specify):

ELASTOMERS AND PROTECTIVE AND COATINGS

Adhesives (Organic Resins) and Glues: Adhesives Binders Cement Glues Miscellaneous Materials Putty

CAN-P-1570 Appendix A JUNE 2010

Sealant

Paints; Varnishes; Inks; Coatings; and Allied Products: Inks Lacquers Miscellaneous Products Paints and Protective Coatings Application and Working Properties Applied Coatings Performance Colour and Appearance Constituents Printing inks Turpentine Varnishes

<u>Plastics; Resins and Rubbers:</u> Plastics Resins and Rubbers

Other (Specify):

ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

Communications Equipment and Systems: Broadcasting Components and Assemblies Power and Signal Distribution Equipment Radio Telecommunication Radio, Television and Electronic Apparatus Telecommunications Equipment Wiring and Related Products

Components and Assemblies:

Circuit Breakers and Fuses Conductors Insulators Rectifiers Switches and Controls Transformers Wiring and Related Products

Electrical Appliances: Cooking and Liquid Heating Heating, Refrigerating and Air Conditioning Lighting and Fixtures Miscellaneous Electrical Appliances (Specify) Motor Operated Electrical Appliances Washing Equipment

Equipment, Miscellaneous:

Automotive Components Conductors Enclosures Grounding Hazardous Location Equipment Insulators Panels Shielded Rooms Welding

Information Processing and Business Equipment:

Computers Data Processing Equipment Office Machines Photocopying and Related Equipment Power Supplies Typewriter

Medical Devices: Breathing Apparatus and Equipment Diagnostic Instruments Health Care and Health Hazard Technologies Limbs (Prostheses) Pacemakers Resuscitators Surgical Instruments (See MEDICAL Section) Treatment Equipment

<u>Materials:</u> Plastics <u>Motors, Generators, and Machines:</u> Complete Unit

Scientific Instruments: (For biological, chemical electrical, mechanical optical and physical examination) Circuit Breakers and Fuses Components and Assemblies Laboratory Equipment Recorders Rectifiers Switches and Controls Timers Transformers

Other (Specify):

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Air Quality: (Outdoor Stack Emission)

CAN-P-1570 Appendix A JUNE 2010

Biological Materials Quality:

Environmental: Air Air (Occupational Health) Air Cartridge **Air Emission Filter/RC** Air Filter **Air Impingers** Air-Tedlar Bag Ambient Air Animal Tissue Ash, Sludge and Soil/Sediment Biological **Biological Oils Biological Tissues Biologicals Biomaterials Biosolids Biota Charcoal Tube** Compost **Diesel Particulate Matter** Dustfall Effluent **Effluent/Liquids Environmental Products** Fish Fish Feed/Fish Meal/Fish Tissue Fish Feed/Fish Meal/Fish Tissue/Fish Oil **Fish Tissue** Fluoride Candles Food Stuffs Hydrocarbon Industrial Waste Leachate Leachates Liquid **Liquid Waste** Liquids Manure Oil Paint Particulates **Petroleum Products Plant Tissue** PSD Pulp **Pulp and Paper** Radio Chemistry Rainwater CAN-P-1570 Appendix A

Raw Sewage Seawater Sediment (Toxicology) Sediment/Sludge Sewage Sewage/Effluent Sewage/Effluent/Soil Slides/wedge Sludge Sludges Soil Soil (Radiochemistry) Soil (Toxicology) Soil/Sediment Soil/Sediment (Toxicology) Soil/Sludge Soil/Sludge/Compost/Sediment Soil/Sludge/Sediment Soil/Solid Soil/Solid Industrial Waste Solids/Waste Soils/Sludge/Compost/Sediment Solid Waste Solids Solids/Sludge Solids/Sludge/Sediment Surface Water Tailings & Waste Rock Tailings, Waste Rock, Soil & Ore Tissue Vegetation Vehicle Exhaust Waste Wastewater Wastewater (Microbiology) Water (Inorganic) Water (Microbiology) Water (Organic) Water (Radiochemistry) Water (Toxicology) Water/Effluents Water/Effluents/Sewage Water/Wastes Water/Wastewater

Environmental Conditioning: Temperature Vibration and Shock

Environmental Conditions and Systems: Marine Conditions

CAN-P-1570 Appendix A JUNE 2010

Meteorological Conditions

Liquid Wastes:

Occupational Health and Safety: Air Monitoring Asbestos **Building Components Biohazard Cabinets** Clean Air Devices Clothing **Detection Instruments** Diving **Emitting Equipment Fire Protection Health Hazard Technologies** Noise **Personal Protection** Security Equipment Warning Devices

Sediments, Soils:

Solid Waste; Nuclear:

Water Quality: Drinking Waters Ground Waters Industrial Chemicals and Wastes Industrial Effluent Precipitation Process Waters Recycled Waters Saline Waters Surface Waters

Other (Specify):

FORENSICS

Counterfeits Firearms / Tool Marks Forensic Biology / DNA Forensic Chemistry / Trace Analysis Forensic Drug Chemistry Forensic Equine Drug Testing Forensic Toxicology Questioned Documents Examination Other (Specify):

MACHINERY

Boilers, Pressure Vessels and Piping: Portable Utility Engines Pumps and Related Equipment

<u>Munitions and Arms:</u> (Ballistics) Bombs Cartridge Civilian Small Arms Grenades Military Heavy Arms Military Small Arms Military Warheads Shotgun

<u>Stationary Equipment:</u> Engines Hoists Turbines Winches

<u>Transportation, Agricultural and Construction Vehicles and Components:</u> Automobiles, Light Trucks, Vans & Trailers Boats and Ships Recreational, All-Terrain Trucks, Heavy Duty, Commercial, Buses & Trailers

Other (Specify): MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS

Books: Educational Materials Magazines and Journals Newspapers

Equipment, Miscellaneous: Burglary Protection Equipment Mechanical Equipment Motors, Generators and Machines

Furniture and Consumer Articles: Furniture Hazardous Products Household Products Musical Instruments Sports Equipment Tools Toys

Marine Products: Flotation Aids, Components **Lighting Fixtures, Marine Products**

<u>Trade and Commercial Goods:</u> Business Materials Containers and Packaging

Other (Specify):

MEDICAL

<u>Medical Products:</u> Devices (Non Electrical) Limbs Surgical Instruments Sterile Dressings (See also CHEM Pharmaceuticals) Treatment Equipment

Medical Testing: Anatomical Pathology BiochemistryCytology Genetics Haematology Immunophenotyping Maternal Serum Screening Microbiology Molecular Diagnostics Virology

Other (Specify):

Veterinary:

METALLIC ORES AND PRODUCTS

<u>Articles of Metal:</u> All Forms, Articles of Metal Welded Components, Articles of Metal Cast, Forged, Welded or Pressed Metal Components

Basic Metal Products: (Ingots, pigs, bar, sheets)

Concentrates, Metallic Liquors and Other Process Products:

Metallic Ores: Formulations Metal Powders Precious Metals Rocks and Ores

CAN-P-1570 Appendix A JUNE 2010

Sediments

<u>Mineral Analysis Testing</u> Assay, Umpire Assay Work Contract Settlement Assaying Geotechnical Testing Mineral Assaying

Semi-Fabricated Products: (Extrusion, rolled sections)

Tools, Fasteners and Hardware:

Other (Specify):

NONDESTRUCTIVE EXAMINATION

Acoustic Emission: Eddy Current: Industrial Ultrasonics: Industrial Radiography: Infra-Red Thermography: Leak Testing: Liquid Penetrant: Magnetic Particle: Ultrasonic: Vibration Analysis: Visual, Welding: Other (Specify): NON-METALLIC MINERALS AND PRODUCTS Bituminous and Other Organic Materials, Coal and Tar: Bitumen

<u>Cement and Cement Based Products:</u> Accessories Composites and Types (Concrete, Mortar, etc.) Gypsum Lime Products (Blocks, etc.)

<u>Ceramics; Clay and Clay Products:</u> Bricks and Structural Tile Ceramics Clays Porcelain Enamels Refractory and Firebrick

<u>Energy Equipment:</u> (Appliances) Handling of Liquid Fuels Kerosine Fired Appliances Miscellaneous, Energy Equipment Natural Gas Fired Appliances Oil Fired Appliances Propane Fired Appliances Safety Devices and Supplies Solid Fuel Fired Appliances Venting Equipment for Products of Combustion

<u>Glass and Glass Products:</u> Constituents and Formulations Glassware

Oil Shale and Tar Sands:

Petroleum Crudes and Natural Gas:

Petroleum Refinery Products: (Including asphalt materials; petrochemicals; fuels and lubricants) Asphalt Fuels and Lubricants Petrochemicals Solvents Soil: Aggregates: Stone: Sand: Aggregates (See Geotechnical Surveys, this section **Geotechnical Surveys** Constituents Hydrogeology Methods Soils Stone Sand Solid Fuels and By-Products: Coke Peat

Other (Specify):

TEXTILES AND FIBROUS MATERIALS

Apparel and Other Finished Textile Products: Carpets Clothing Flags and Decorations Furniture Coverings Mattresses Tents Window Coverings

<u>Textile Mill Products</u>: (Including synthetic and natural fibres) Aircraft Materials Fabrics

CAN-P-1570 Appendix A JUNE 2010

Fibres Yarns

Other (Specify):

WOOD PRODUCTS

Construction Materials: (Including for Furniture Finished Wood Floor covering Logs Lumber Panel Products (Except Plywood) Plywood Poles **Prefabricated Components** Timers Wood Preservatives Wood Products, General Fasteners and Hardware: (See Construction) Paper and Allied Articles Containers and Packaging (See Marketplace Products **Packaging Components and Materials** Paper and Paperboard **Paper Products** Pulp

<u>Physical Properties of Wood Products</u> Density, Wood Products Moisture Content, Wood Products

Structures and Components of Wood Products

Other (Specify)