

## Test Report

**Date** : 2019-04-12  
**No.** : SP19040033

**Page 1 of 10**

**Applicant** : Hayes Specialties Corporation  
1761 East Genesee Saginaw, MI 48601-2407

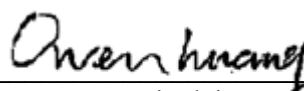
**Description of Samples** : One (1) group of submitted samples said to be:  
COUNTRY OF ORIGIN: CHINA  
AGE GRADING FOR APPLICANT: 3+  
AGE GRADING FOR TESTING: 3+

Item	Description
16993	AK47 Toy Friction Rifle
17505	Combo Air Gun And Dart Set-8 Assorted With Varying Accessories
17506	Toy Dart Gun Set-2 Pistols And Other Toys

**Date Samples Received** : 2019-04-03, 2019-04-09

**Date Tested** : 2019-04-03 to 2019-04-11

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - physical and mechanical test(Apart from clause 7.1) - flammability test - heavy metal test	Pass
2. US Consumer Product Safety Improvement Act - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303. - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
3. The Total Lead content requirements according to the California Proposition 65	Pass
4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the California Proposition 65.	Pass
5. Total cadmium content requirements according to the California Proposition 65.	Pass
6. The Total Lead content requirements according to Illinois Public Act 095-1019	Pass
7. The Phthalates content requirements according to California Assembly Bill NO.1108	Pass
8. San Francisco Health Code - Phthalates content in accordance with Article 34, sec 34.2	Pass

  
HUANG Qinglai, Owen  
Authorized Signatory



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The following test item(s) was/were performed on submitted sample(s) and/or components confirmed by applicant.

Item No.	Component Description
<u>Coating materials:</u>	
<u>1</u>	Coating on gun body:silver* <sup>3</sup>
<u>Plastic materials:</u>	
<u>2</u>	Muzzle:light orange
<u>3</u>	Gun body:black
<u>4</u>	Gun body:deep brown
<u>5</u>	The bullet shelf:black
<u>6</u>	Bullet:brown
<u>7</u>	Gun body:deep green
<u>8</u>	Dagger/Key ring:gray
<u>9</u>	Lens:transparent red
<u>10</u>	Plastic board:black
<u>11</u>	Watch:deep green
<u>Rubber materials:</u>	
<u>12</u>	Rubber bottom:orange
<u>Paper materials:</u>	
<u>13</u>	Sticker on gun:white with black
<u>14</u>	Sticker on key ring:silver with black
<u>15</u>	Paper on target:white with multicolor print
<u>Metal materials:</u>	
<u>16</u>	Screw on gun:silver* <sup>4</sup>
<u>17</u>	Nut on gun:silver* <sup>4</sup>

### **Test Results:**

#### **1.ASTM Standard Consumer Safety Specification for Toy Safety F 963-17**

#### **AGE GRADING:**

The sample was age graded with the marking of “ ages 5+,6+,8+ ”; however, the applicant requested it be tested according to the age grade of 36 months and up.

#### **AGE GRADING FOR TESTING:**

36 months and up.

#### **1.1 Mechanical and physical hazards of the submitted sample**

Ref.: ASTM F 963-17

Applicable requirements before and after use and abuse testing:

<u>Applicable</u> <u>Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass
4.2	Flammability	Pass* <sup>1</sup>
4.5	Sound-Producing Toys	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass

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### Test Results:

4.12	Plastic Films	Pass
4.21	Projectile Toys	Pass
5	<u>Labeling Requirements</u>	----
5.2	Age grading labeling	*2
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	Pass

\*1 = Please refer to section 1.2 of this report for details.

\*2 = See age grading.

Use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal Use Testing	
8.6	Abuse Testing	
8.7	Drop Tests	4 drops at 3ft
8.8	Torque Tests	4 in-lbs or $\pm 180^\circ$
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	30 lbs.

### 1.2 Flammability test for solids and soft toys

Ref.: ASTM F963-17 Section 4.2

Method used: FHSA 16CFR 1500.44

Result: pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
Cap pistol	DNI

DNI = Did not ignite

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

### 1.3 Heavy metal test

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer & Inductively Coupled Plasma Mass Spectrometry

#### 4.3.5.1 Paint and similar surface-coating

##### Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
1	<10ppm	90ppm

##### Soluble metals test

\*3 = The surface coating is less than 10mg, so it is not necessary to conduct the test according to the standard.

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**Test Results:**

4.3.5.2 Toys Substrate Materials

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>2+3+4</u>	<10ppm	100ppm
<u>5+6+7</u>	<10ppm	100ppm
<u>8+9+10</u>	<10ppm	100ppm
<u>11</u>	<10ppm	100ppm
<u>12</u>	<10ppm	100ppm
<u>13+14</u>	<10ppm	100ppm
<u>15</u>	<10ppm	100ppm
<u>16</u>	<10ppm	100ppm
<u>17</u>	<10ppm	100ppm

Soluble metals test

\*4 = According to requirement of ASTM F963-17, materials such as metal, glass, and ceramic are exempted if they are not small parts.

	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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	<u>14</u>	<u>15</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	60ppm
Soluble barium.....	6ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	500ppm

Note: < denotes less than.

**2. US Consumer Product Safety Improvement Act**

**2.1 Children’s products containing lead - Total Lead content in paint and surface coating**

Ref.: CPSIA Sec 101(f) and 16 CFR 1303

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1</u>	<10ppm	90ppm

Note: < denotes less than.

**2.2 Children’s products containing lead - Total Lead content in substrate**

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>2+3+4</u>	<10ppm	100ppm
<u>5+6+7</u>	<10ppm	100ppm
<u>8+9+10</u>	<10ppm	100ppm
<u>11</u>	<10ppm	100ppm
<u>12</u>	<10ppm	100ppm
<u>13+14</u>	<10ppm	100ppm
<u>15</u>	<10ppm	100ppm
<u>16</u>	<10ppm	100ppm
<u>17</u>	<10ppm	100ppm

Note: < denotes less than.

**2.3 Phthalates content**

Ref.: CPSIA Sec 108 and 16 CFR PART 1307

Determined by: Gas Chromatography with Mass Selective Detector

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**Test Results:**

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		1	2+3+4	5+6+7	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		8+9+10	11	12	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		13+14	15	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Note: < denotes less than.

**3. The Total Lead Content**

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Sample	Result	Limit
1	<10ppm	90ppm
2+3+4	<10ppm	100ppm
5+6+7	<10ppm	100ppm
8+9+10	<10ppm	100ppm
11	<10ppm	100ppm
12	<10ppm	100ppm

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### Test Results:

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>13+14</u>	<10ppm	100ppm
<u>15</u>	<10ppm	100ppm
<u>16</u>	<10ppm	100ppm
<u>17</u>	<10ppm	100ppm

Note: < denotes less than.

### 4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1</u>	<u>2+3+4</u>	<u>5+6+7</u>	<u>8+9+10</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

	<u>11</u>	<u>12</u>	<u>13+14</u>	<u>15</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

### 5. The Total cadmium content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1</u>	<5ppm	75ppm
<u>2+3+4</u>	<5ppm	75ppm
<u>5+6+7</u>	<5ppm	75ppm
<u>8+9+10</u>	<5ppm	75ppm
<u>11</u>	<5ppm	75ppm
<u>12</u>	<5ppm	75ppm
<u>13+14</u>	<5ppm	75ppm
<u>15</u>	<5ppm	75ppm
<u>16</u>	<5ppm	75ppm
<u>17</u>	<5ppm	75ppm

Note: < denotes less than.

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### Test Results:

#### **6. The Total Lead Content requirements according to Illinois Public Act 095-1019**

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1</u>	<10ppm	40ppm
<u>2+3+4</u>	<10ppm	40ppm
<u>5+6+7</u>	<10ppm	40ppm
<u>8+9+10</u>	<10ppm	40ppm
<u>11</u>	<10ppm	40ppm
<u>12</u>	<10ppm	40ppm
<u>13+14</u>	<10ppm	40ppm
<u>15</u>	<10ppm	40ppm
<u>16</u>	<10ppm	40ppm
<u>17</u>	<10ppm	40ppm

Note: < denotes less than.

#### **7. Phthalates content**

Ref.: California Assembly Bill NO.1108

Determined by: Gas Chromatography with Mass Selective Detector

##### **A. Any toy or children article**

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit(ppm)</u>
		<u>1</u>	<u>2+3+4</u>	<u>5+6+7</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit(ppm)</u>
		<u>8+9+10</u>	<u>11</u>	<u>12</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>		<u>Limit(ppm)</u>
		<u>13+14</u>	<u>15</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	1000

##### **B. Any toys and children articles which can be placed in mouth for children under 3 years**

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit(ppm)</u>
		<u>1</u>	<u>2+3+4</u>	<u>5+6+7</u>	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

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Test Item	CAS No.	Result(ppm)			Limit(ppm)
		8+9+10	11	12	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		13+14	15	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	1000

Note: < denotes less than.

**8. Phthalates content**

Ref.: San Francisco Health Code Article 34, sec 34.2

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1</u>	<u>2+3+4</u>	<u>5+6+7</u>	<u>8+9+10</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-octyl phthalate(DNOP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>11</u>	<u>12</u>	<u>13+14</u>	<u>15</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-octyl phthalate(DNOP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

**STC (Shanghai) Company Limited**

130 Huashen Road, Waigaoqiao Pilot Free Trade Zone, Shanghai, China. Zip Code: 200131

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## Test Report

Date : 2019-04-12  
No. : SP19040033

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### The photo of submitted samples



\*\*\*\*\* End of Test Report \*\*\*\*\*

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2. Any report issued by the Company as a result of this application for testing service (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3 ,the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
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5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
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9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

12. Issuance records of the Report are available on the internet at [www.stc-group.org](http://www.stc-group.org). Further enquiry of validity or verification of the Reports should be addressed to the Company.