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AT-1500

TEST REPORT

Company:	Quality Certification Alliance	Test Report #	13H-03209
Recipient:	D. Fenton	Date of Issue:	October 31, 2013
Recipient Email:	dfenton@qcalliance.org	Pages:	Page 1 of 22
cc to Email:	-	Date Received:	October 21, 2013

SAMPLE INFORMATION:

Description:	BA Series Ink		
Assortment/Colors:	See Table on pg.3	Purchase Order Number:	-
Style/Batch No.:	See Table on pg.3	Country of Distribution:	United States
Supplier:	Inkcups Now	Country of Origin:	United States
Quantity Submitted:	2 fluid oz./sample	Labeled Age Grade:	-
Date Received:	10/21/2013	Recommended Age Grade:	-
Testing Period:	10/21/2013 – 10/31/2013	Tested Age Grade:	-

Refer to page 2 for Testing Summary Table and appropriate notes.

Quality Certification Alliance

ANSECO GROUP (HK) LIMITED

Vincent Chow Wai Kit
Manager, Chemical Laboratory

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TEST REPORT

Company:	Quality Certification Alliance	Test Report #	13H-03209
Recipient:	D. Fenton	Date of Issue:	October 31, 2013
Recipient Email:	dfenton@qcalliance.org	Pages:	Page 2 of 22
cc to Email:	-	Date Received:	October 21, 2013

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints & Surface Coatings
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Surface Coatings of Children's Jewelry and Childcare Articles
PASS	Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children's Jewelry
PASS	Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry
PASS	CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Total Elements Screening in Paint and Similar Surface Coatings
PASS	CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings
Refer to Detailed Results*	CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)
PASS	California Proposition 65, Phthalates (DEHP, DBP, BBP, DIDP, DnHP)
PASS	ASTM F2923-11 Clause 8, Total Elements Screening in Paint and Surface Coatings
PASS	ASTM F2923-11 Clause 8, Soluble Elements in Paint and Surface Coatings

** Specimen (s) # 22 Does Not Meet the requirements of CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP) Please see page 3 for detailed specimen description and page 14 for test results on individual specimens.*

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DETAILED SAMPLE DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Lemon Yellow ink w/M-Thinner (BA Series:110)	Raw Material
2	Medium Yellow ink w/M-Thinner (BA Series:111)	Raw Material
3	Dark Yellow ink w/M-Thinner (BA Series:112)	Raw Material
4	Ocre Yellow ink w/M-Thinner (BA Series:117)	Raw Material
5	Signal Red ink w/M-Thinner (BA Series:121)	Raw Material
6	Carmine Red ink w/M-Thinner (BA Series:122)	Raw Material
7	Dark Pink ink w/M-Thinner (BA Series:124)	Raw Material
8	Light Blue ink w/M-Thinner (BA Series:130)	Raw Material
9	Ultra Blue ink w/M-Thinner (BA Series:132)	Raw Material
10	Dark Blue ink w/M-Thinner (BA Series:133)	Raw Material
11	Turquoise ink w/M-Thinner (BA Series:134)	Raw Material
12	Violet ink w/M-Thinner (BA Series:136)	Raw Material
13	Bright Green ink w/M-Thinner (BA Series:140)	Raw Material
14	Emerald Green ink w/M-Thinner (BA Series:142)	Raw Material
15	Light Brown ink w/M-Thinner (BA Series:150)	Raw Material
16	Dark Brown ink w/M-Thinner (BA Series:151)	Raw Material
17	White ink w/M-Thinner (BA Series:160)	Raw Material
18	Black ink w/M-Thinner (BA Series:165)	Raw Material
19	RE Pale Gold ink w/M-Thinner (BA Series:75)	Raw Material
20	RE Rich Pale Gold ink w/M-Thinner (BA Series:76)	Raw Material
21*	RE Rich Gold ink w/M-Thinner (BA Series:77)	Raw Material
22*	RE Bronze ink w/M-Thinner (BA Series:78)	Raw Material

Note:
*= Specimens where initial phthalate result was deemed high during composite testing.

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TEST REPORT

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cc to Email:	-	Date Received:	October 21, 2013

DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints & Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulations. [Referenced Test Method: CPSC-CH-E-1003-09.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Pb	LT 10	LT 10	LT 10	LT 10	LT 10	**90**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20	21+22	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Pb	LT 10	LT 10	LT 10	---	---	**90**
Conclusion	PASS	PASS	PASS	---	---	

Note:
Pb = Lead
mg/kg = Milligram per kilogram
LT = Less Than

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cc to Email:	-	Date Received:	October 21, 2013

DETAILED RESULTS:

The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Surface Coatings of Children's Jewelry and Childcare Articles

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-E1003-09.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Pb	LT 10	LT 10	LT 10	LT 10	LT 10	**40**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20	21+22	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Pb	LT 10	LT 10	LT 10	---	---	**40**
Conclusion	PASS	PASS	PASS	---	---	

Note:
Pb = Lead
mg/kg = Milligrams per kilogram
LT = Less than

Remark:
A warning statement that indicates that at least one component part of the item contains lead is required for a total lead content in any component part of the item that is more than 40mg/kg but less than a standard for lead content as may be established by federal or State law or regulation.

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DETAILED RESULTS:

Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children's Jewelry

Analysis performed by Inductively Coupled Plasma Spectroscopy to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Cd	LT 10	LT 10	LT 10	LT 10	LT 10	**75**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20	21+22	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Cd	LT 10	LT 10	LT 10	---	---	**75**
Conclusion	PASS	PASS	PASS	---	---	

Note:
Cd = Cadmium
mg/kg = Milligram per kilogram
LT = Less Than

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DETAILED RESULTS:

Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry

Analysis performed by Inductively Coupled Plasma Spectroscopy to determine compliance with the above referenced regulation. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Cd	LT 10	LT 10	LT 10	LT 10	LT 10	**75**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20	21+22	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Cd	LT 10	LT 10	LT 10	---	---	**75**
Conclusion	PASS	PASS	PASS	---	---	

Note:
Cd = Cadmium
mg/kg = Milligram per kilogram
LT = Less Than

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Total Elements Screening in Paint and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Soluble (mg/kg)**
Total Sb	LT 10	LT 10	LT 10	LT 10	LT 10	**60**
Total As	LT 10	LT 10	LT 10	LT 10	LT 10	**25**
Total Ba	LT 10	2400*	22	24	2200*	**1000**
Total Cd	LT 10	LT 10	LT 10	LT 10	LT 10	**75**
Total Cr	LT 10	LT 10	LT 10	LT 10	LT 10	**60**
Total Pb	LT 10	LT 10	LT 10	LT 10	LT 10	**90**
Total Hg	LT 10	LT 10	LT 10	LT 10	LT 10	**60**
Total Se	LT 25	LT 25	LT 25	LT 25	LT 25	**500**
Conclusion	PASS	Refer to Soluble Result	PASS	PASS	Refer to Soluble Result	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
mg/kg = Milligram per kilogram
LT = Less Than

Remark:
*The total heavy metals screening results exceeded the soluble heavy metal limits, therefore a separate soluble analysis was conducted.

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Total Elements Screening in Paint and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	16+17+18	19+20	21+22	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Soluble (mg/kg)**
Total Sb	LT 10	LT 10	LT 10	---	---	**60**
Total As	LT 10	LT 10	LT 10	---	---	**25**
Total Ba	12	40	LT 10	---	---	**1000**
Total Cd	LT 10	LT 10	LT 10	---	---	**75**
Total Cr	LT 10	LT 10	LT 10	---	---	**60**
Total Pb	LT 10	LT 10	LT 10	---	---	**90**
Total Hg	LT 10	LT 10	LT 10	---	---	**60**
Total Se	LT 25	LT 25	LT 25	---	---	**500**
Conclusion	PASS	PASS	PASS	---	---	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
mg/kg = Milligram per kilogram
LT = Less Than

Remark:
The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	4	5	6	13	14	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Soluble (mg/kg)**
Soluble Sb	LT 2	LT 2	LT 2	LT 2	LT 2	**60**
Soluble As	LT 2	LT 2	LT 2	LT 2	LT 2	**25**
Soluble Ba	7	LT 2	LT 2	LT 2	LT 2	**1000**
Soluble Cd	LT 2	LT 2	LT 2	LT 2	LT 2	**75**
Soluble Cr	LT 2	LT 2	LT 2	LT 2	LT 2	**60**
Soluble Pb	LT 2	LT 2	LT 2	LT 2	LT 2	**90**
Soluble Hg	LT 2	LT 2	LT 2	LT 2	LT 2	**60**
Soluble Se	LT 2	LT 2	LT 2	LT 2	LT 2	**500**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
mg/kg = Milligram per kilogram
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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-11 Clause 4.3.5, Soluble Elements in Paints and Similar Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced regulation and standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	15	---	---	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Soluble (mg/kg)**
Soluble Sb	LT 2	---	---	---	---	**60**
Soluble As	LT 2	---	---	---	---	**25**
Soluble Ba	3	---	---	---	---	**1000**
Soluble Cd	LT 2	---	---	---	---	**75**
Soluble Cr	LT 2	---	---	---	---	**60**
Soluble Pb	LT 2	---	---	---	---	**90**
Soluble Hg	LT 2	---	---	---	---	**60**
Soluble Se	LT 2	---	---	---	---	**500**
Conclusion	PASS	---	---	---	---	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Pb = Lead; Hg = Mercury; Se = Selenium
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DETAILED RESULTS:

CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	**Limit (% w/w)**
DBP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
BBP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
DEHP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
DnOP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
DINP	0.015	0.040	0.014	LT 0.012	0.037	**0.1**
DIDP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
DnOP = Di-n-octyl phthalate; DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate
% w/w = Percentage by weight
LT = Less Than

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cc to Email:	-	Date Received:	October 21, 2013

DETAILED RESULTS:

CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	16+17+18	19+20	21+22	---	---	
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	**Limit (% w/w)**
DBP	LT 0.012	LT 0.012	LT 0.012	---	---	**0.1**
BBP	LT 0.012	LT 0.012	LT 0.012	---	---	**0.1**
DEHP	LT 0.012	LT 0.012	LT 0.012	---	---	**0.1**
DnOP	LT 0.012	LT 0.012	LT 0.012	---	---	**0.1**
DINP	0.022	LT 0.012	0.13	---	---	**0.1**
DIDP	LT 0.012	LT 0.012	0.040	---	---	**0.1**
Conclusion	PASS	PASS	**FAIL***	---	---	

Note:
DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
DnOP = Di-n-octyl phthalate; DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate
% w/w = Percentage by weight
LT = Less Than

**Remark:*
At the request of the client, the inks were re-tested individually for *21 and 22* result which f*ailed or was deemed "high"* during composite testing. Refer to Page *14* for test results on individual specimens.

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DETAILED RESULTS:

CPSIA Section 108, Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	21	22	---	---	---	
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	**Limit (% w/w)**
DBP	LT 0.010	LT 0.010	---	---	---	**0.1**
BBP	LT 0.010	LT 0.010	---	---	---	**0.1**
DEHP	LT 0.010	LT 0.010	---	---	---	**0.1**
DnOP	LT 0.010	LT 0.010	---	---	---	**0.1**
DINP	LT 0.010	0.12	---	---	---	**0.1**
DIDP	LT 0.010	0.037	---	---	---	**0.1**
Conclusion	PASS	**FAIL**	---	---	---	

Note:
DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
DnOP = Di-n-octyl phthalate; DINP = Diisononyl phthalate; DIDP = Diisodecyl phthalate
% w/w = Percentage by weight
LT = Less Than

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TEST REPORT

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Recipient:	D. Fenton	Date of Issue:	October 31, 2013
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DETAILED RESULTS:

California Proposition 65, Phthalates (DEHP, DBP, BBP, DIDP, DnHP)

Analysis performed by Gas Chromatography/Mass Spectrometry to determine compliance with the above referenced regulation. [Referenced Test Method: CPSC-CH-C1001-09.3]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	**Limit (% w/w)**
DBP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
BBP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
DEHP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
DIDP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
DnHP	LT 0.012	LT 0.012	LT 0.012	LT 0.012	LT 0.012	**0.1**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16+17+18	19+20	21+22	---	---	
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	**Limit (% w/w)**
DBP	LT 0.012	LT 0.012	LT 0.010	---	---	**0.1**
BBP	LT 0.012	LT 0.012	LT 0.010	---	---	**0.1**
DEHP	LT 0.012	LT 0.012	LT 0.010	---	---	**0.1**
DIDP	LT 0.012	LT 0.012	0.040	---	---	**0.1**
DnHP	LT 0.012	LT 0.012	LT 0.010	---	---	**0.1**
Conclusion	PASS	PASS	PASS	---	---	

Note:
DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate
DIDP = Diisodecyl phthalate; DnHP = Di-n-hexyl phthalate
%w/w = Percentage by weight
LT = Less Than

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DETAILED RESULTS:

ASTM F2923-11 Clause 8, Total Elements Screening in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Sb	LT 10	LT 10	LT 10	LT 10	LT 10	**60**
Total As	LT 10	LT 10	LT 10	LT 10	LT 10	**25**
Total Ba	LT 10	2400*	22	24	2200*	**1000**
Total Cd	LT 10	LT 10	LT 10	LT 10	LT 10	**75**
Total Cr	LT 10	LT 10	LT 10	LT 10	LT 10	**60**
Total Hg	LT 10	LT 10	LT 10	LT 10	LT 10	**60**
Total Se	LT 25	LT 25	LT 25	LT 25	LT 25	**500**
Conclusion	PASS	Refer to Soluble Result	PASS	PASS	Refer to Soluble Result	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Hg = Mercury; Se = Selenium
mg/kg = Milligrams per kilogram
LT = Less than

Remark:
*The total heavy metals screening results exceeded the soluble heavy metal limits, therefore a separate soluble analysis was conducted.

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DETAILED RESULTS:

ASTM F2923-11 Clause 8, Total Elements Screening in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.1]

Specimen No.	16+17+18	19+20	21+22	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Total (mg/kg)**
Total Sb	LT 10	LT 10	LT 10	---	---	**60**
Total As	LT 10	LT 10	LT 10	---	---	**25**
Total Ba	12	40	LT 10	---	---	**1000**
Total Cd	LT 10	LT 10	LT 10	---	---	**75**
Total Cr	LT 10	LT 10	LT 10	---	---	**60**
Total Hg	LT 10	LT 10	LT 10	---	---	**60**
Total Se	LT 25	LT 25	LT 25	---	---	**500**
Conclusion	PASS	PASS	PASS	---	---	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Hg = Mercury; Se = Selenium
mg/kg = Milligrams per kilogram
LT = Less than

Remark:
The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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DETAILED RESULTS:

ASTM F2923-11 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	4	5	6	13	14	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Soluble (mg/kg)**
Soluble Sb	LT 2	LT 2	LT 2	LT 2	LT 2	**60**
Soluble As	LT 2	LT 2	LT 2	LT 2	LT 2	**25**
Soluble Ba	7	LT 2	LT 2	LT 2	LT 2	**1000**
Soluble Cd	LT 2	LT 2	LT 2	LT 2	LT 2	**75**
Soluble Cr	LT 2	LT 2	LT 2	LT 2	LT 2	**60**
Soluble Hg	LT 2	LT 2	LT 2	LT 2	LT 2	**60**
Soluble Se	LT 2	LT 2	LT 2	LT 2	LT 2	**500**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Hg = Mercury; Se = Selenium
mg/kg = Milligrams per kilogram
LT = Less than

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DETAILED RESULTS:

ASTM F2923-11 Clause 8, Soluble Elements in Paint and Surface Coatings

Analysis performed by Inductively Coupled Plasma Optical Emission Spectrometry to determine compliance with the above referenced standard. [Referenced Test Method: ASTM F963-11 Clause 8.3.2]

Specimen No.	15	---	---	---	---	**Limit**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Soluble (mg/kg)**
Soluble Sb	LT 2	---	---	---	---	**60**
Soluble As	LT 2	---	---	---	---	**25**
Soluble Ba	3	---	---	---	---	**1000**
Soluble Cd	LT 2	---	---	---	---	**75**
Soluble Cr	LT 2	---	---	---	---	**60**
Soluble Hg	LT 2	---	---	---	---	**60**
Soluble Se	LT 2	---	---	---	---	**500**
Conclusion	PASS	---	---	---	---	

Note:
Sb = Antimony; As = Arsenic; Ba = Barium; Cd = Cadmium;
Cr = Chromium; Hg = Mercury; Se = Selenium
mg/kg = Milligrams per kilogram
LT = Less than

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PHOTO OF FAIL COMPOSITE INK(S):

No. of Photo: 1

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PHOTO OF FAIL INDIVIDUAL INK(S):

No. of Photo: 2

Quality

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SAMPLE PHOTO:

-End Report-

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