

TEST REPORT

Test Report # 19H-007235 Date of Report Issue: September 30, 2019
Date of Sample Received: September 24, 2019 Pages: Page 1 of 1

CLIENT INFORMATION:

Company: Numo Manufacturing
Recipient: Rebecca Williams
Recipient Email: rwilliams@numomfg.com



SAMPLE INFORMATION:

| | | | |
|--------------------------|--|------------------------|-------|
| Description: | B728 - white, black, cobalt B729 - white, black, cobalt | Purchase Order Number: | - |
| Assortment: | - | Toy Co./Agency: | - |
| SKU/style No.: | - | Country of Origin: | China |
| Factory/Supplier/Vendor: | Numo Manufacturing | Labeled Age Grade: | - |
| Country of Distribution: | - | Recommended Age Grade: | - |
| Quantity Submitted: | 8 pcs per style | Tested Age Grade: | - |
| Testing Period: | 09/24/2019 – 09/30/2019 | | |

OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

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TEST RESULTS SUMMARY:

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

| CONCLUSION | TEST(S) CONDUCTED |
|------------|--|
| PASS | Client's Requirement, Total Cadmium in Glass and Ceramic Materials ^{#φ} |
| PASS | California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior [#] |
| PASS | FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior [#] |

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DETAILED RESULTS:

Client's Requirement, Total Cadmium in Glass and Ceramic Materials

Test Method: In-House Method^{#φ}
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 1 | 2 | 3 | --- | --- | Total Limit (ppm) |
|--------------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| Test Item | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | Result (ppm) | |
| Total Cadmium (Cd) | ND | ND | ND | --- | --- | 40 |
| Conclusion | PASS | PASS | PASS | --- | --- | |

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 4A | 4B | 4C | 4D | 4E | 4F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 420 | 420 | 420 | 420 | 420 | 420 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | ND | 0.049 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Conclusion | | | | | | | PASS | |

Note:

mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|---------------------------------|---------------------|---------------------|
| X | Cups and Mugs (Average of 6) | 0.049 | 0.100 |
| | Flatware (Average of 6) | 0.189 | 0.226 |
| | Large Hollowware (Average of 6) | 0.049 | 0.100 |
| | Small Hollowware (Average of 6) | 0.049 | 0.100 |
| | Pitchers (Average of 6) | 0.049 | 0.100 |

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 5A | 5B | 5C | 5D | 5E | 5F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 420 | 420 | 420 | 420 | 420 | 420 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | ND | 0.049 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Conclusion | | | | | | | PASS | |

Note:

mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
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| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|---------------------------------|---------------------|---------------------|
| X | Cups and Mugs (Average of 6) | 0.049 | 0.100 |
| | Flatware (Average of 6) | 0.189 | 0.226 |
| | Large Hollowware (Average of 6) | 0.049 | 0.100 |
| | Small Hollowware (Average of 6) | 0.049 | 0.100 |
| | Pitchers (Average of 6) | 0.049 | 0.100 |

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 6A | 6B | 6C | 6D | 6E | 6F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 420 | 420 | 420 | 420 | 420 | 420 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | ND | 0.049 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Conclusion | | | | | | | PASS | |

Note:

mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|---------------------------------|---------------------|---------------------|
| X | Cups and Mugs (Average of 6) | 0.049 | 0.100 |
| | Flatware (Average of 6) | 0.189 | 0.226 |
| | Large Hollowware (Average of 6) | 0.049 | 0.100 |
| | Small Hollowware (Average of 6) | 0.049 | 0.100 |
| | Pitchers (Average of 6) | 0.049 | 0.100 |

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 7A | 7B | 7C | 7D | 7E | 7F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 370 | 370 | 370 | 370 | 370 | 370 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | ND | 0.049 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Conclusion | | | | | | | PASS | |

Note:

mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|---------------------------------|---------------------|---------------------|
| X | Cups and Mugs (Average of 6) | 0.049 | 0.100 |
| | Flatware (Average of 6) | 0.189 | 0.226 |
| | Large Hollowware (Average of 6) | 0.049 | 0.100 |
| | Small Hollowware (Average of 6) | 0.049 | 0.100 |
| | Pitchers (Average of 6) | 0.049 | 0.100 |

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 8A | 8B | 8C | 8D | 8E | 8F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 370 | 370 | 370 | 370 | 370 | 370 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | ND | 0.049 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Conclusion | | | | | | | PASS | |

Note:

mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|---------------------------------|---------------------|---------------------|
| X | Cups and Mugs (Average of 6) | 0.049 | 0.100 |
| | Flatware (Average of 6) | 0.189 | 0.226 |
| | Large Hollowware (Average of 6) | 0.049 | 0.100 |
| | Small Hollowware (Average of 6) | 0.049 | 0.100 |
| | Pitchers (Average of 6) | 0.049 | 0.100 |

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment under 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 9A | 9B | 9C | 9D | 9E | 9F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 370 | 370 | 370 | 370 | 370 | 370 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | ND | 0.049 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | ND | 0.100 |
| Conclusion | | | | | | | PASS | |

Note:

mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|---------------------------------|---------------------|---------------------|
| X | Cups and Mugs (Average of 6) | 0.049 | 0.100 |
| | Flatware (Average of 6) | 0.189 | 0.226 |
| | Large Hollowware (Average of 6) | 0.049 | 0.100 |
| | Small Hollowware (Average of 6) | 0.049 | 0.100 |
| | Pitchers (Average of 6) | 0.049 | 0.100 |

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DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 4A | 4B | 4C | 4D | 4E | 4F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 420 | 420 | 420 | 420 | 420 | 420 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | | |

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| | Category | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|---|-----------------------------|---------------------|---------------------|
| X | Cups and Mugs (Any of 6) | 0.5 | 0.5 |
| | Flatware (Average of 6) | 0.5 | 3.0 |
| | Large Hollowware (Any of 6) | 0.25 | 1.0 |
| | Small Hollowware (Any of 6) | 0.5 | 2.0 |
| | Pitchers (Any of 6) | 0.25 | 0.5 |

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DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 5A | 5B | 5C | 5D | 5E | 5F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 420 | 420 | 420 | 420 | 420 | 420 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | | |

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|-----------------------------|---------------------|---------------------|
| X | Cups and Mugs (Any of 6) | 0.5 | 0.5 |
| | Flatware (Average of 6) | 0.5 | 3.0 |
| | Large Hollowware (Any of 6) | 0.25 | 1.0 |
| | Small Hollowware (Any of 6) | 0.5 | 2.0 |
| | Pitchers (Any of 6) | 0.25 | 0.5 |

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DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 6A | 6B | 6C | 6D | 6E | 6F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 420 | 420 | 420 | 420 | 420 | 420 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | | |

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| | Category | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|---|-----------------------------|---------------------|---------------------|
| X | Cups and Mugs (Any of 6) | 0.5 | 0.5 |
| | Flatware (Average of 6) | 0.5 | 3.0 |
| | Large Hollowware (Any of 6) | 0.25 | 1.0 |
| | Small Hollowware (Any of 6) | 0.5 | 2.0 |
| | Pitchers (Any of 6) | 0.25 | 0.5 |

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DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 7A | 7B | 7C | 7D | 7E | 7F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 370 | 370 | 370 | 370 | 370 | 370 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | | |

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| | Category | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|---|-----------------------------|---------------------|---------------------|
| X | Cups and Mugs (Any of 6) | 0.5 | 0.5 |
| | Flatware (Average of 6) | 0.5 | 3.0 |
| | Large Hollowware (Any of 6) | 0.25 | 1.0 |
| | Small Hollowware (Any of 6) | 0.5 | 2.0 |
| | Pitchers (Any of 6) | 0.25 | 0.5 |

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DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 8A | 8B | 8C | 8D | 8E | 8F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 370 | 370 | 370 | 370 | 370 | 370 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | | |

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| Category | | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|----------|-----------------------------|---------------------|---------------------|
| X | Cups and Mugs (Any of 6) | 0.5 | 0.5 |
| | Flatware (Average of 6) | 0.5 | 3.0 |
| | Large Hollowware (Any of 6) | 0.25 | 1.0 |
| | Small Hollowware (Any of 6) | 0.5 | 2.0 |
| | Pitchers (Any of 6) | 0.25 | 0.5 |

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DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)[#]
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No. | 9A | 9B | 9C | 9D | 9E | 9F | Average (mg/L) | Limit (mg/L) |
|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| Test Item | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | Result (mg/L) | | |
| Volume of acid used (mL) | 370 | 370 | 370 | 370 | 370 | 370 | | |
| Leachable Cadmium (Cd) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Leachable Lead (Pb) | ND | ND | ND | ND | ND | ND | NA | 0.5 |
| Conclusion | PASS | PASS | PASS | PASS | PASS | PASS | | |

Note:
 mL = Millilitres
 mg/L (Milligrams per litre) = ppm (Parts per million)
 NA = Not applicable
 LT = Less than
 ND = Not detected (Reporting Limit: Pb = 0.04 mg/L; Cd = 0.02 mg/L)

| | Category | Leachable Cd (mg/L) | Leachable Pb (mg/L) |
|---|-----------------------------|---------------------|---------------------|
| X | Cups and Mugs (Any of 6) | 0.5 | 0.5 |
| | Flatware (Average of 6) | 0.5 | 3.0 |
| | Large Hollowware (Any of 6) | 0.25 | 1.0 |
| | Small Hollowware (Any of 6) | 0.5 | 2.0 |
| | Pitchers (Any of 6) | 0.25 | 0.5 |

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SPECIMEN DESCRIPTION:

| Specimen No. | Specimen Description | Location |
|--------------|---------------------------------|---------------------------------------|
| 1 | Deep blue printed beige ceramic | Mug body (all cobalt styles) |
| 2 | Black printed beige ceramic | Mug body (all black styles) |
| 3 | White printed beige ceramic | Mug body (all white styles) |
| 4 | Deep blue printed beige ceramic | Interior of mug (B728 – cobalt style) |
| 5 | Black printed beige ceramic | Interior of mug (B728 – black style) |
| 6 | White printed beige ceramic | Interior of mug (B728 – white style) |
| 7 | Deep blue printed beige ceramic | Interior of mug (B729 – cobalt style) |
| 8 | Black printed beige ceramic | Interior of mug (B729 – black style) |
| 9 | White printed beige ceramic | Interior of mug (B729 – white style) |

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SAMPLE PHOTO:



-End Report-

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