

Assessment of Lead and Cadmium in Children's Jewelry, 2025

Environmental Assessment Program

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Abstract

In 2025, Washington State Department of Ecology conducted a study to assess levels of lead and cadmium present in inexpensive children's jewelry marketed for children 12 years and younger. Under Washington State's Children's Safe Products Act, lead and cadmium in children's products are restricted to 90 parts per million (ppm) for lead and 40 ppm for cadmium. At the federal level, the United States Consumer Product Safety Commission also enforces restrictions on lead and cadmium content in children's products.

We purchased children's jewelry products available in physical retail stores in the Puget Sound region in early 2025. A total of 50 unique products were collected, yielding 60 component samples for lead and cadmium analysis. Forty-four (73.3%) component samples from 39 products contained lead, cadmium, or both above the detection limit of 1.0 ppm. Six (10%) component samples from five products contained lead, cadmium, or both above the levels of concern outlined in the Children's Safe Products Act.

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Background

Washington's Children's Safe Products Act (CSPA; Chapter 70A.430 RCW) limits the presence of toxic chemicals, including certain metals, in children's products. CSPA also requires manufacturers to annually report if their children's products contain the listed Chemicals of High Concern to Children (CHCC; Chapter 173-334 WAC).

In 2015, Ecology conducted a study to assess levels of lead, cadmium, and five other toxic metals (antimony, arsenic, cobalt, mercury, molybdenum) in children's jewelry (Sekerak 2016). The 2015 study found that 8 of the 38 samples (21%) tested children's jewelry items contained concentrations of lead and/or cadmium above the CSPA limit. The five other toxic metals tested were to assess compliance with the CHCC reporting rule.

Ecology conducted a follow-up study in 2018 to assess lead and cadmium levels of jewelry identified in the 2015 study (Nelson 2023). A total of 38 samples from 33 products were tested. Eleven samples (29%) contained cadmium above the 40 parts per million (ppm) limit, and seven samples (18%) contained lead above the 90 ppm limit.

We conducted a 2025 study following the published Quality Assurance Project Plan (QAPP; Smith 2025). This study assessed levels of lead and cadmium in 60 jewelry sample components from a total of 50 children's necklaces, bracelets, and hair accessories. Children's jewelry, as defined in CSPA (Chapter 70A.430.010 RCW), is jewelry marketed and sold for use by children 12 years of age or younger. Study data were collected and validated for use.

Methods

Ecology's Quality Assurance Officer approved the QAPP, Assessment of Lead and Cadmium in Children's Jewelry, before we conducted the 2025 product purchasing, sample preparation, lab analysis, and data reporting (Smith 2025). The QAPP outlines the purchasing strategy, sample processing and analysis methods, quality objectives, quality control, study timeline, budget, and data reporting method. We followed standard operating procedures and QAPP-specified methods for the final data review.

Product Collection

We purchased jewelry that had designs appealing to children or were marketed for a child 12 years of age or younger. All products were purchased from physical retail stores in the Puget Sound region. Retail stores with multiple locations in Washington state were prioritized for purchasing. We chose these retailers to represent availability for Washington residents across the state, assuming stores sell similar products at multiple locations. In total, 50 jewelry products were purchased from 12 retail stores. Purchase events occurred on March 6, 2025, and March 10, 2025.

Inexpensive, or low-cost, jewelry was prioritized in this study, including individual jewelry pieces costing \$5 or less, and multipacks priced \$15 or less. During sampling events, it was determined

that a price point of \$5 or less for an individual jewelry product was too restrictive. We were only able to find a few individual jewelry pieces within the \$5 price point. To stay within the price limit, we purchased multipacks, meaning two or more jewelry pieces sold as one product for under \$15. Multipacks consisted of multiple necklaces, bracelets, hair accessories, or a mix of jewelry types (variety pack). We considered a multipack to be a single purchased product. A total of 50 products were purchased.

Table 1. Jewelry product category and the number of each purchased.

Product Category	Number of Products Purchased
Hair Accessory Multipack	19
Necklace Multipack	12
Bracelet Multipack	10
Jewelry Variety Pack	9
Total	50

After each purchasing event, we placed all products in separate, clean, labeled zip-top bags and stored them in plastic totes. We labeled the totes by purchase event and stored them in restricted-access, locked cabinets in Ecology’s product studies preparation room.

Sample Processing

The 50 purchased products were separated into 335 components and recorded in the [consumer product database](https://apps.ecology.wa.gov/consumerproducts/)¹ (CPD). X-ray fluorescence (XRF) screening of components was then used to prioritize sample selection for lab analysis. To maximize the number of products tested, at least one component from each purchased product was chosen for lab analysis. We chose the components for lab analysis if screening results indicated the presence of lead, cadmium, or both metals. If screening results from multiple components indicated the presence of lead and/or cadmium, then we prioritized the components indicating presence of both lead and cadmium for lab analysis. If screening data did not indicate the presence of lead or cadmium in any component of a product, components for analysis were prioritized by the heaviest metal component(s) or by the heaviest plastic component(s) if no metal component was present.

Lab analysis with quality control samples requires a minimum of 2.5 grams of component material. The extremely small and lightweight nature of some products requires that individual components be composited, meaning multiple components are combined to create one sample. Since the components of children’s jewelry are small and lightweight, compositing was required for 31 of the 60 samples (52%) to provide enough material for analysis. We chose components for compositing based on XRF screening, component type,

¹ <https://apps.ecology.wa.gov/consumerproducts/>

and material type (i.e., metal or plastic). Component types similar to one another (e.g., charms), or from the same jewelry item (e.g., components from a single necklace), were composited when possible. If smaller components, such as jump rings, had been chosen for analysis based on screening results, similar components, such as chains or clasps, were composited to ensure appropriate weight for analysis.

A total of 60 component samples were sent to Ecology's Manchester Environmental Laboratory (MEL) for metals analysis. The majority, 57 of 60 samples, were metal. The remaining three samples were plastic. The component samples chosen for analysis comprised a variety of component types and are summarized in Table 2 and detailed in Appendix A, Table A-1.

Table 2. Jewelry product category and the number and type of components within each product category tested.

Product Category	Number of Components Tested
Hair Accessories	24
Barrettes	14
Décor	9
Headband Wire	2
Necklaces	23
Pendants	19
Jump rings	11
Chain	9
Clasps	8
Bracelets	14
Charms	19
Chain	2
Bangles	2
Jump rings	3
Beads	2
Clasp	1

We reduced the size of components for analysis by hand and placed them into pre-cleaned certified glass jars for transport to the lab. A courier delivered the samples to MEL, and the submission of samples met all chain-of-custody requirements for the study.

Laboratory Procedures

Ecology's MEL prepared samples in one work order and five lab batches using microwave-assisted (without hydrofluoric acid) digestion per U.S. Environmental Protection Agency (EPA) Method 3052. Analysis for lead and cadmium was performed following EPA Method 6020B using inductively coupled plasma mass spectrometry (ICP-MS). Instruments were calibrated with National Institute of Standards and Technology traceable standards and were verified

with a second-source NIST traceable standard. All instrument calibration (initial and continuing) verification checks were within acceptance limits.

Published data in the CPD will be reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm). This report will use ppm to discuss results, as regulatory language generally uses ppm to describe limits.

Data Quality

A Stage 3 data validation report, laboratory case narrative, and electronic data deliverable were received via email on October 1, 2025. MEL's case narrative and data validation report provided a discussion and assessment of the data quality, analysis methods, instrument calibration, and quality control. All analyses followed the technical specifications, methods, and quality assurance/quality control requirements of MEL methods and the study's QAPP (Smith 2025). The project manager reviewed and accepted all data.

All results without qualifiers are valid and usable as reported. Sample results with a "U" qualifier indicate that concentrations were not at or above the detection limit of 1.0 ppm or adjusted detection limit.

Results with qualifiers and measurement quality objectives not met are discussed below:

- The absolute difference of lead in samples TG-54-6-1 and its associated duplicate was 2.82 ppm, which is greater than twice the detection limit. The sample result for TG-54-6-1 was "J" qualified as an estimate. The data are usable as qualified.

Results

The results represent 60 component samples from 50 children's jewelry products tested for lead and cadmium. Thirty-one (52%) of the samples were composites of multiple components. Of the 60 component samples, 43 samples (72%) contained lead, and 31 samples (52%) contained cadmium above the detection limit (1.0 ppm) or the adjusted detection limit. Detected lead concentrations ranged from 1.17 ppm to 190,000 ppm. Detected concentrations of cadmium ranged from 1.05 ppm to 67.50 ppm.

Six samples contained lead, cadmium, or both metals above the levels of concern of 90 ppm for lead and 40 ppm for cadmium. Those six samples were made up of components from five unique products, and all were composites of components.

The product description and component identification numbers for those samples containing lead above 90 ppm, cadmium above 40 ppm, or both metals are listed below:

- The orange and pink charms of the **Strawberry Shortcake Charm Bracelet** (BU-6-1-3) contained cadmium above 40 ppm.
- The butterfly wings frame, butterfly body, and alligator clip barrette of the **Girls 4 Piece Sunglass/Hair Clip Set** (BU-6-2-3) contained lead above 90 ppm and cadmium above 40 ppm.

- The alligator clip barrettes of the **Bow Fancy Hair Clip Set** (MH-3-1-2) contained lead above 90 ppm.
- The gold heart and gold star barrette décor from the **Bow Fancy Hair Clip Set** (MH-3-1-3) contained cadmium above 40 ppm.
- The lobster claw clasp, jump rings, and BFF pendants from the **Colorful Heart BFF Necklace Set** (FM-49-1-3) contained lead above 90 ppm.
- The bow pendants, butterfly pendants, and jump rings from the **Gold Bow Necklace Set** (FM-49-2-1) contained cadmium above 40 ppm.

Composite sampling allows for testing small components that would otherwise not meet the minimum size required for laboratory testing. At the time of testing, a small subsample is taken from the submitted sample. The uneven relative size and weight of different components likely resulted in uneven distribution among the pieces tested. Since many of the samples were composites of multiple components, we cannot determine whether one or all the individual components within a sample contained lead, cadmium, or both. Results could be affected by multiple components being included in or excluded from the analysis, as well as potential dilution of a single component's content, resulting in lower detections of lead and cadmium.

Conclusions

A total of 60 component samples from 50 children's jewelry products were tested for lead and cadmium. Forty-four (73%) component samples from 39 products were found to contain lead, cadmium, or both above the detection limit of 1.0 parts per million. Six (10%) component samples from five products contained lead above 90 ppm, cadmium above 40 ppm, or both metals above those levels.

The data for this project were forwarded to Ecology's Children's Safe Products Act lead for evaluation under Washington State laws.

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Appendix A.

Table A-1 Summary results for children's jewelry 2025.

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm*)	Cadmium (ppm)
Strawberry Shortcake Charm Bracelet	BU-6-1-3	Orange Charm and Pink Charm	Yes	193466103740	WildBrain	Burlington, HER Accessories	30.60	67.5
Girls 4 Piece Sunglass/Hair Clip Set	BU-6-2-3	Butterfly Wings Frame, Butterfly Body and Alligator Clip Barrette	Yes	—	Nicole Miller New York	Burlington	190000	50.5
Colorful Heart BFF Necklace Set	FM-49-1-3	Lobster Claw Clasp, Jump Rings, and 'BFF' Pendants	Yes	195426099384	Lark & Laurel	Fred Meyer, F.A.F. Inc.	108	5.84
Gold Bow Necklace Set	FM-49-2-1	Bow Pendants, Butterfly Pendants, and Jump Rings	Yes	195426099292	Lark & Laurel	Fred Meyer, F.A.F. Inc.	14.50	40.4
Cat Hair Clips	FM-49-3-1	Multicolor Snap Clip Barrettes	No	195426083314	—	Fred Meyer, F.A.F. Inc.,	1U [±]	1U
Multi-Colored BFF Bracelet Set	FM-49-4-1	Rectangular Bar Charms	No	195426099377	Lark & Laurel	Fred Meyer, F.A.F. Inc.	18.90	2.41
Gabby's Dollhouse Hair Bow Clip Set	JC-10-1-5	Heart Gems, Round Gems, and Gem Netting	Yes	193466094369	Dreamworks	JCPenney, HER Accessories	4.89	1U
Easter Headband Set	JC-10-2-10	Headband: Round Gem and Headband Wire	Yes	193466103832	Happy Easter	JCPenney, HER Accessories	3.17	1U
Squishmallows Necklace and Bracelet Set	JC-10-3-2	Necklace: 'S' Pendant, Extender Chain, Jump Rings, Lobster Claw Clasp, Knot Cover Bead and Chain	Yes	193466077133	Jazwares	JCPenney, HER Accessories	36.9	4.06

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm*)	Cadmium (ppm)
Squishmallows Necklace and Bracelet Set	JC-10-3-10	Bracelet 3: Pink Cow Charm, Crimp End Caps, Lobster Claw Clasp, and Jump Rings	Yes	193466077133	Jazwares	JCPenney, HER Accessories	25.5	4.24
Barbie Mix & Match Charm Bracelet	JC-10-4-3	'Barbie' Charm, Heart Charm, and Jacket Charm	Yes	19346608693	Barbie	JCPenney, HER Accessories	17.1	1.59
Flower BFF Necklace Sharing Set	KL-9-1-3	Necklace 1 and 2: 'BFF' Pendants, Pink Flower Pendant, White Flower Pendant	Yes	43834523369	Limited Too	Kohl's, Fantasia Accessories Ltd.	16.3	6.58
Bow Hair Clips with Charms	KL-9-2-2	Butterfly Charms, Heart Charms, and Flower Charms	Yes	43834272212	Limited Too	Kohl's, Fantasia Accessories Ltd.	22.9	1.05
5 Bracelets Set	KL-9-3-6	Bracelet 5: Gold Butterfly Charms	No	43834556695	Limited Too	Kohl's, Fantasia Accessories Ltd.	15.80	4.78
3 Silver Butterfly Necklace Set	KL-9-4-6	Necklace 3: Large Butterfly Pendant and Chain	Yes	43834164692	Limited Too	Kohl's, Fantasia Accessories Ltd.	6.23	1.16
Bow and Cat Hair Clips	KL-9-5-2	White and Grey Snap Clip Barrettes	Yes	888711338588	Claire's Club	Kohl's, CBI Distributing Corp.	1.93	1U
Bow and Cat Hair Clips	KL-9-5-4	Pink Cat Decor and Clear Gems	Yes	888711338588	Claire's Club	Kohl's, CBI Distributing Corp.	1U	1U
Bow Fancy Hair Clip Set	MH-3-1-2	Alligator Clip Barrettes	Yes	7263638065119781	Danbar Global	Marshalls, Danbar Cool Things, Inc.	12800	6.6
Bow Fancy Hair Clip Set	MH-3-1-3	Gold Heart and Gold Star Decor	Yes	7263638065119781	Danbar Global	Marshalls, Danbar Cool Things, Inc.	16.7	43.1

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm*)	Cadmium (ppm)
Teddy Bear Accessories Set	NR-2-1-7	Necklace: Chain, Extender Chain, Jump Rings, Lobster Claw Clasp; Choker: Jump Rings and Gem Pendants	Yes	719175135546	Flynn & Riley	Nordstrom Rack	1U	1U
8 Piece Choker & Earring Set	NR-2-2-1	Necklace 1 and 4: Pearl Beads	Yes	191730838060	Capelli	Nordstrom Rack, Capelli New York	1U	1U
8 Piece Choker & Earring Set	NR-2-2-7	Necklace 5: Chain	No	191730838060	Capelli	Nordstrom Rack, Capelli New York	1U	1U
Care Bears Hair Clip Set	NR-2-3-1	Multicolor Snap Clip Barrettes	No	794187100836	High IntenCity	Nordstrom Rack, High IntenCity	1U	1U
5 Easter Bracelet Set	RO-6-1-2	Bracelet 1: Bunny Charm and Bracelet 5: Chain	Yes	400285141991	Capelli	Ross, Capelli New York	4.89	1U
Barbie Mixed Hair Clips Set	RO-6-2-1	Silver Heart Decor	No	192813489551	Barbie	Ross, Stepping Stones	1U	1U
Barbie Mixed Hair Clips Set	RO-6-2-5	Alligator Clip Barrettes	No	192813489551	Barbie	Ross, Stepping Stones	1U	1U
Baby Boutique Hair Bow Clip Set	RO-6-3-1	Alligator Clip Barrettes	No	400283799088	bebe	Ross, Enchante Accessories, Inc.	1U	1U
Bow Hair Clips	TG-54-1-1	Alligator Clip Barrettes	No	27467503400	Cloud Island	Target, Target Corporation	1.75	1U
Heart Hair Clips	TG-54-2-3	Purple Heart Alligator Clip Barrettes	No	198420455934	art class	Target, Target Corporation	1U	1U
Heart Hair Clips	TG-54-2-4	Blue Heart Alligator Clip Barrette	No	198420455934	art class	Target, Target Corporation	5.61	4.2

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm*)	Cadmium (ppm)
Bow and Heart Necklace and Bracelet Set	TG-54-3-4	Bracelet: Bow Charm	No	198420267896	Cat & Jack	Target, Target Corporation	30.90	11.4
Butterfly Faux Hair Clips	TG-54-4-4	Pink and Green Snap Clip Barrettes	Yes	198420455989	Cat & Jack	Target, Target Corporation	2.01	1U
Unicorn Necklace and Bracelet Set	TG-54-5-1	Necklace: Unicorn Pendant	No	198101809414	Cat & Jack	Target, Target Corporation	11.80	18.5
3 Piece Necklace Set	TG-54-6-1	Necklace 1: Chain and Lobster Claw Clasps	Yes	198101256324	art class	Target, Target Corporation	6.96J^	11.7
3 Piece Necklace Set	TG-54-6-4	Necklace 3: 'E' Pendant and Chain	Yes	198101256324	art class	Target, Target Corporation,	1.17	5.63
Butterfly Headband	TG-54-7-1	Headband Frame	No	197543701324	art class	Target, Target Corporation	1U	1U
Butterfly Headband	TG-54-7-3	Flower Decor	No	197543701324	art class	Target, Target Corporation	10.8	3.46
Gold Bangle Bracelet Set	TJ-2-2-1	Pearl Beads	No	—	Danbar Global	T.J. Maxx, Danbar Cool Things, Inc.	1.2	1U
Gold Bangle Bracelet Set	TJ-2-2-2	Bangles	No	—	Danbar Global	T.J. Maxx, Danbar Cool Things, Inc.	1U	1U
Sequined Bow Hair Clip Set	TJ-2-3-5	Alligator Clip Barrettes	No	—	Danbar Global	T.J. Maxx, Danbar Cool Things, Inc.	1U	1U
Unicorn and Rainbow Hair Clip	WG-6-1-1	Alligator Clip Barrettes	No	4060044067601	—	Walgreens,Beeline Import and Services LLC	1U	1U

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm*)	Cadmium (ppm)
Frozen Jewelry Set	WG-6-2-1	Necklace: Heart Pendant	No	4060044026820	Disney	Walgreens, Beeline Import and Services LLC	13.4	5.45
BFF Heart Locket Necklace Set	WG-6-3-1	Necklace 1: Pink Heart Locket and 'Best' Pendant	Yes	4060044065089	—	Walgreens, Beeline Import and Services LLC	1.45	1U
BFF Heart Locket Necklace Set	WG-6-3-3	Necklace 1: Extender Chain, Jump Rings, and Lobster Claw Clasp	No	4060044065089	—	Walgreens, Beeline Import and Services LLC	2.82	1U
Heart Necklace and Bracelet Set	WG-6-4-1	Necklace: Mermaid Heart Pendant and Jump Ring	No	4057192100038	—	Walgreens, Beeline Import and Services LLC	17.2	4.18
DIY Necklace with Charms	WM-62-1-2	Butterfly Pendant and Unicorn Pendant	Yes	192655259817	Wonder Nation	Walmart, Wal-Mart Stores Inc.	11.10	4.55
12 Piece Bangle Bracelet Set	WM-62-2-1	Bangle Bracelets	No	727833933090	Wonder Nation	Walmart, Wal-Mart Stores Inc.	4.35	1U
Butterfly Hair Clips	WM-62-3-5	Butterfly Frame Wire	No	888711771910	Claire's	Walmart, CBI Distributing Corp.	1U	1U
St. Patrick's Day Hair Clips	WM-62-4-1	Alligator Clip Barrettes	No	888711741517	Claire's	Walmart, CBI Distributing Corp.	1U	1U
Bluey Hair Clips	WM-62-5-2	Silver Snap Clip Barrettes	No	193466103566	Bluey	Walmart, HER Accessories	1.66	1U
Star Necklace and Bracelet Set	WM-62-6-3	Bracelet: Star Charm and Jump Ring; Necklace: Star Pendant, Jump Ring and Silver Beads	Yes	888711693618	Claire's	Walmart, CBI Distributing Corp.	12.10	3.75

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm*)	Cadmium (ppm)
Layered Necklace Set	WM-63-1-1	Necklace 1: Heart Pendant, Chain, Extender Chain, Jump Rings, and Lobster Claw Clasp	Yes	192655239635	Wonder Nation	Walmart, Walmart Inc.	8.67	4.14
Layered Necklace Set	WM-63-1-7	Necklace 3: Lock Pendant, Chain, Extender Chain, Jump Rings, and Lobster Claw Clasp	Yes	192655239635	Wonder Nation	Walmart, Walmart Inc.	5.47	1.46
Make Your Own Necklace Kit with Bear Pendants	WM-63-2-11	Extender Chain, Jump Rings, Lobster Claw Clasp, Straight and Screw Eye Pins, and Spring Ring Clasps	Yes	888711234088	Claire's	Walmart, CBI Distributing Corp.	23.5	1U
Make Your Own Necklace Kit with Butterfly and Flower Pendants	WM-63-3-2	Daisy Face Pendant, Purple Butterfly Pendant, and Blue Butterfly Pendant	Yes	888711222054	Claire's	Walmart, CBI Distributing Corp.	15.80	2.41
Balloon Dog BFF Bracelet Set	WM-63-4-1	Pink and Blue Balloon Dog Charms, 'BFF' Charms, and Jump Rings	Yes	888711221606	Claire's	Walmart, CBI Distributing Corp.	23.6	7.61
Yin and Yang BFF Bracelet Set	WM-63-5-1	Yin/Yang Charms	No	888711408748	Claire's	Walmart, CBI Distributing Corp.	20.4	1.36
Hello Kitty Necklace Set	WM-63-6-2	Necklace 1: Hello Kitty Pendant	No	887746861122	Sanrio	Walmart, Jacmel Jewelry Inc.	12.4	1U
Stitch BFF Necklace	WM-63-7-2	Necklace 1 and 2: 'BFF' and Heart Pendants, Jump Rings and Extender Baubles	Yes	887746855954	Disney	Walmart, Jacmel Jewelry Inc.	5.47	1.47

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm [*])	Cadmium (ppm)
6 Piece Bracelet Set	WM-63-8-11	Gold Bracelet	No	72783393304	Wonder Nation	Walmart, Walmart Inc	1U	3.96

*ppm = parts per million

[±]U = data qualifier indicating the analyte was not detected at or above the detection limit.

[^]J = data qualifier indicating the result is an estimate.

Bolded font indicates results above CSPA levels.