### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
The following specialty sustaining standards of practice shall be incorporated into the laboratory's quality management system, where applicable to the scope of services provided.	Refer to 10NYCRR Part 67-3 for additional blood lead reporting requirements. Contact information for reporting blood lead is also found in Public Health Reporting Sustaining Standard of Practice 1.	The following specialty sustaining standards of practices shall be incorporated into the laboratory's quality management system, where applicable to the scope of services provided.	Refer to 10NYCRR Part 67-3 for additional blood lead reporting requirements. Contact information for reporting blood lead is also found in Public Health Reporting Sustaining Standard of Practice 1 (PH S1).	
Revised June 2014				
Blood Lead Sustaining Standard of Practice 1 (BL S1): Materials Contamination Control  The laboratory shall implement procedures to ensure that materials used for blood lead collection and processing are free from significant lead contamination.	Significant lead contamination refers to an amount of lead that would change the blood lead level by more than 1 microgram/dL.  Blood collection tubes should be lot-tested, certified as lead-free, or manufacturer-certified for trace element use to ensure that containers are free from lead contamination. Collection tubes are suitable for use when the mean lead concentration or difference in blood lead is less than or equal to 0.5 micrograms/dL.  Collection materials such as alcohol swabs and blood	UNCHANGED		

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
	containers should be lead-free. The laboratory should inform clients of proper collection techniques, including the importance of patient hand washing prior to collection of capillary specimens.			
	Glassware and plastic ware used during the analysis should be acidwashed (e.g., in 10% (by volume) nitric acid). Alternatively, disposable glassware and plastic ware should be verified as contamination-free by randomly checking materials by lot.			

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
Blood Lead Sustaining Standard of Practice 2 (BL S2): Processing Contamination Control  To minimize lead contamination during specimen collection and testing:  a) work shall be performed in a clean area; and,  b) specimen aliquots shall be protected from dust contamination before and during analysis.	<ul> <li>a) Clean area refers to space that is dedicated to testing for lead and/or other trace metals, and is regularly cleaned by wet wiping flat surfaces.</li> <li>b) If a ISO 5 (a.k.a Class 100) clean room is unavailable, specimen aliquots should be protected by use of dust protection devices (e.g., furnace AAS carousels containing unanalyzed samples should be protected with dust covers before and during analysis).</li> </ul>	UNCHANGED		

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Sustaining Standard of Practice 3 (BL S3): Order of Testing  If blood specimens are collected for multiple analyses including lead testing, a volume sufficient for the initial lead test and any repeat testing should be transferred to a lead-free tube under clean conditions before any other processing or testing occurs to the specimen.	Specimen contamination from other testing areas may be minimized by implementing this protocol.  As an alternative, the test for blood lead can be completed prior to other testing.	UNCHANGED	
Blood Lead Sustaining Standard of Practice 4 (BL S4): Calibration		UNCHANGED	
The laboratory shall perform instrument calibration:			
<ul> <li>a) with a minimum of three standards plus a blank, or in accordance with the manufacturer's requirements where they exist specifically for blood lead analysis; and,</li> </ul>			
<ul> <li>at least every eight hours of testing, unless longer instrument stability is validated.</li> </ul>			

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Sustaining Standard of Practice 5 (BL S5): Quality Control  Three levels of quality control shall be included with each test run.	The controls should include a low (approximately 5 micrograms/dL), an intermediate (10 - 30 micrograms/dL), and a high (greater than 30 micrograms/dL) level material.  The Department anticipates that these suggested ranges will be modified as control materials from commercial vendors that are in compliance with CDC recommendations become available.	UNCHANGED	The controls should include a low (approximately 5 micrograms/dL), an intermediate (10 - 30 micrograms/dL), and a high (greater than 30 micrograms/dL) level material.  The Department anticipates that these suggested ranges will be modified as control materials from commercial vendors that are in compliance with CDC recommendations become available.  Laboratories with methods having an upper calibration limit of 30 µg/dL would only need to run an elevated control when diluting elevated samples ≥30 µg/dL.
Blood Lead Sustaining Standard of Practice 6 (BL S6): Unacceptable Specimens		UNCHANGED	
Blood specimens with visible clots shall be rejected as unsatisfactory for analysis.			

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Sustaining Standard of Practice 7 (BL S7): Unacceptable ASV Specimens		STANDARD DELETED	
Venous specimens submitted for lead analysis by anodic stripping voltammetry (ASV) that are collected in EDTA tubes and are less than 50% of the recommended draw volume shall be rejected as unsatisfactory for analysis.			

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
Blood Lead Sustaining Standard of Practice 8 (BL S8): Repeat Analysis  All specimens which initially result in blood lead levels greater than or equal to 5 micrograms/dL shall be reanalyzed a second time if the volume of the original specimen permits. Use the average of the two consecutive test results to determine whether the discrepancy is large enough (see guidance for definitions) to require a third analysis. A third analysis shall be performed when:  a) large discrepancies are obtained between two consecutive results; or,  b) initial test results are greater than 40 micrograms/dL.	A new aliquot from the original specimen should be used for the reanalysis. Specimen volume for capillary samples may be insufficient for retesting purposes.  Large differences between two consecutive tests are defined as differences exceeding 3 micrograms/dL for blood lead levels 5 to 20 micrograms/dL; 4 micrograms/dL for values 21 to 40 micrograms/dL; or 10% for values exceeding 40 micrograms/dL. In these cases, the specimen should be analyzed a third time, the outlier result should be discarded and either report the average or the first obtained of the remaining results.	UNCHANGED		

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
Blood Lead Sustaining Standard of Practice 9 (BL S9): Reporting Potential Contamination  If a specimen is received in a blood collection container that is not certified for blood lead testing, and the result is above the reference value (greater than or equal to 5 micrograms/dL), the report shall indicate that the use of unverified containers might produce a falsely elevated result.	When a specimen is received in a blood collection tube that is either not provided by the testing laboratory or not certified as lead-free and the blood level is less than 5 micrograms/dL, the blood lead result can be reported without comment.  Trace element "free" tubes or containers that have been lottested in-house are acceptable alternatives to manufacturer certified blood lead tubes, and need not be footnoted in the test report.	UNCHANGED		

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Sustaining Standard of Practice 10 (BL S10): Potential for Fingerstick Contamination		UNCHANGED	
Elevated capillary blood lead levels (greater than 5 micrograms/dL) shall be reported with a comment that capillary blood levels greater than 5 micrograms/dL may be due to contamination from lead found on the finger surface and require confirmation with venous blood.			
Blood Lead Sustaining Standard of Practice 11 (BL S11): Single Use Screening Devices		Blood Lead Sustaining Standard of Practice 11 (BL S11): Single Use Devices	
Laboratories using point-of-care lead analyzers that are based on single-use, disposable sensors i.e., screen-printed electrode technology must follow the Blood Lead Standards for Screening Tests.		Laboratories using <u>blood</u> lead analyzers that are based on single-use, disposable sensors i.e., ASV screen-printed electrode technology must follow the Blood Lead Standards for <u>ASV Screen-Printed Sensors</u> .	

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead - Comprehensive				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
NONE		Blood Lead Sustaining Standard of Practice 12 (BL S12): Reporting In addition to the report requirements defined in Reporting Sustaining Standard of Practice 1 (Reporting S1): Report Content, the laboratory report must contain:  a) the methodology used in analysis; and b) for test results on exposed adults, a reference interval of <5 ug/dL.		

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
The following specialty sustaining standards of practice shall be incorporated into the laboratory's quality management system, where applicable to the scope of services provided.	Refer to 10NYCRR Part 67-3, for additional blood lead reporting requirements. Contact information for reporting blood lead is also found in Public Health Reporting Sustaining Standard of Practice 1(PHS S1).	The following specialty sustaining standards of practices shall be incorporated into the laboratory's quality management system, where applicable to the scope of services provided.	Refer to 10NYCRR Part 67-3, for additional blood lead reporting requirements. Contact information for reporting blood lead is also found in Public Health Reporting Sustaining Standard of Practice 1 (PH S1).	
Effective June 2014	Laboratories using point-of-care (POC) lead analyzers, such as the LeadCare II, that are based on single-use, disposable sensors, i.e., screen-printed electrode technology, must follow these		Laboratories using lead analyzers that are based on single-use, disposable sensors, i.e., ASV screen-printed electrode technology, must follow these standards.	
	standards.  Reference:  Guidelines for Measuring Lead in Blood Using Point of Care Instruments, Advisory Committee on Childhood Lead Poisoning Prevention, October 24, 2013.		Reference: Guidelines for Measuring Lead in Blood Using Point of Care Instruments, Advisory Committee on Childhood Lead Poisoning Prevention, October 24, 2013. <a href="http://www.cdc.gov/nceh/lead/ACCLPP/20131024">http://www.cdc.gov/nceh/lead/ACCLPP/20131024</a> POCguidelines fin al.pdf	

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
Blood Lead Screening Tests Sustaining Standard of Practice 1 (BLS S1): Materials Contamination Control The laboratory shall implement	Significant lead contamination refers to an amount of lead that would change the blood lead level by more than 1 microgram/dL.	Blood Lead <u>ASV Sensors</u> Sustaining Standard of Practice 1 (BLS S1): Materials Contamination Control	Significant lead contamination refers to an amount of lead that would change the blood lead level by more than 1 microgram/dL.	
procedures to ensure that materials used for blood lead collection and processing are free from significant lead contamination.	Blood collection tubes should be lot-tested, certified as lead-free, or manufacturer-certified for trace element use to ensure that containers are free from lead contamination. Collection tubes are suitable for use when the mean lead concentration or difference in blood lead is less than or equal to 0.5 micrograms/dL.	The laboratory shall implement procedures to ensure that materials used for blood lead collection and processing are free from significant lead contamination.	Blood collection tubes should be lot-tested, certified as lead-free, or manufacturer-certified for trace element use to ensure that containers are free from lead contamination. Collection tubes are suitable for use when the mean lead concentration or difference in blood lead is less than or equal to 0.5 micrograms/dL.	
	Collection materials such as alcohol swabs and blood containers should be lead-free. The laboratory should inform clients of proper collection techniques, including the importance of patient hand washing prior to collection of capillary specimens.		Collection materials such as alcohol swabs and blood containers should be lead-free. The laboratory should inform clients of proper collection techniques, including the importance of patient hand washing prior to collection of capillary specimens.	
	Glassware and plastic ware used during the analysis should be acidwashed (e.g., in 10% nitric acid). Alternatively, disposable glassware and plasticware should be verified as contamination-free by randomly		Glassware and plastic ware used during the analysis should be acidwashed (e.g., in 10% (by volume) nitric acid). Alternatively, disposable glassware and plastic ware should be verified as	

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## Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
	checking materials by lot.	•	contamination-free by randomly checking materials by lot.  Should an unexpected number of elevated blood lead test results occur, contamination from materials and/or containers would merit an investigation.  Work with clinical health care providers to ensure proper collection techniques, including the importance of preparing the skin collection site prior to collection of

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Screening Tests Sustaining Standard of Practice 2 (BLS S2): Processing Contamination Control		Blood Lead <u>ASV Sensors</u> Sustaining Standard of Practice 2 (BLS S2): Processing Contamination Control	
To minimize lead contamination during specimen collection and testing:	a) Clean area refers to space that is dedicated to testing for lead and is regularly cleaned by wet wiping flat surfaces.	To minimize lead contamination during specimen collection and testing:	a) Clean area refers to space that is dedicated to testing for lead and is regularly cleaned by wet
<ul> <li>a) work shall be performed in a clean area; and,</li> </ul>		a) work shall be performed in a clean area; and,	wiping flat surfaces.
<ul> <li>specimen aliquots shall be protected from dust contamination before and during analysis.</li> </ul>		b) specimen aliquots shall be protected from dust contamination before and during analysis.	
Blood Lead Screening Tests Sustaining Standard of Practice 3 (BLS S3): Order of Testing  If blood specimens are collected for multiple analyses including lead testing, a volume sufficient for the initial lead test and any repeat testing should be transferred to a lead-free tube under clean conditions before any other processing or testing of the specimen.	Specimen contamination from other testing areas may be minimized by implementing this protocol.  As an alternative, the test for blood lead can be completed prior to other testing.	Blood Lead ASV Sensors Sustaining Standard of Practice 3 (BLS S3): Order of Testing  If blood specimens are collected for multiple analyses including lead testing, a volume sufficient for the initial lead test and any repeat testing should be transferred to a lead-free tube under clean conditions before any other processing or testing of the specimen.	Specimen contamination from other testing areas may be minimized by implementing this protocol.  As an alternative, the test for blood lead can be completed prior to other testing.

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Screening Tests Sustaining Standard of Practice 4 (BLS S4): Calibration  The laboratory shall perform instrument calibration in accordance with the manufacturer's requirements.		Blood Lead ASV Sensors Sustaining Standard of Practice 4 (BLS S4): Calibration  The laboratory shall perform instrument calibration in accordance with the manufacturer's requirements.	
Blood Lead Screening Tests Sustaining Standard of Practice 5 (BLS S5): Use of Capillary Blood  If a capillary tube is used to collect a blood specimen, the laboratory must implement procedures to ensure there are no air-gaps present in the capillary during collection.  Capillary blood specimens with visible clots shall be rejected as unsatisfactory for analysis.	This specimen is appropriate for screening purposes only and is typically used with a point-of-care (POC) device. Consult the manufacturer's packaging / package insert(s) for additional details including the mixing of blood with anticoagulant reagents.	Blood Lead ASV Sensors Sustaining Standard of Practice 5 (BLS S5): Use of Capillary Blood  If a capillary tube is used to collect a blood specimen, the laboratory must implement procedures to ensure there are no air-gaps present in the capillary during collection. Capillary blood specimens with visible clots shall be rejected as unsatisfactory for analysis	This specimen is appropriate for screening purposes only and is typically used with a point-of-care (POC) device. Consult the manufacturer's packaging / package insert(s) for additional details including the mixing of blood with anticoagulant reagents.

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Screening Tests Sustaining Standard of Practice 6 (BLS S6): Use of Venous Blood		Blood Lead <u>ASV Sensors</u> Sustaining Standard of Practice 6 (BLS S6): Use of Venous Blood	
When using a venous blood specimen for the analysis, the laboratory shall:	Venous blood is the preferred specimen for blood lead testing purposes.	When using a venous blood specimen for the analysis, the laboratory shall:	Venous blood is the preferred specimen for blood lead testing purposes.
a) Use blood tubes containing either ethylenediaminetetraacetic acid (EDTA) or heparin as anticoagulants during blood collection;	Refer to manufacturer's insert for instructions on sample mixing.  Make sure to thoroughly mix the blood before withdrawing an aliquot for processing.	e) Use blood tubes containing either ethylenediaminetetraacetic acid (EDTA) or heparin as anticoagulants during blood collection;	Refer to manufacturer's insert for instructions on sample mixing.  Make sure to thoroughly mix the blood before withdrawing an aliquot for processing.
<ul> <li>reject specimens for anodic stripping voltammetry (ASV) analysis that are in EDTA tubes and are less than half full;</li> </ul>		f) reject specimens for anodic stripping voltammetry (ASV) analysis that are in EDTA tubes and are less than half full;	
c) use tan topped tubes (certified lead free), royal blue topped tubes containing EDTA (certified for a limited number of trace elements including lead) or other tubes, containing an anti-coagulant, which have been tested and found to be suitable for blood lead measurements;		g) use tan topped tubes (certified lead free), royal blue topped tubes containing EDTA (certified for a limited number of trace elements including lead) or other tubes, containing an anti-coagulant, which have been tested and found to be suitable for blood lead measurements;	
<ul> <li>d) reject blood specimens with visible clots.</li> </ul>		<ul> <li>h) reject blood specimens with visible clots.</li> </ul>	

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

<b>Current Standard</b>	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Screening Tests Sustaining Standard of Practice 7 (BLS S7): Repeat Analysis  All specimens which initially result in blood lead levels greater than or equal to 5 micrograms/dL shall be reanalyzed a second time if the volume of the original specimen permits. Use the average of the two consecutive test results to determine whether the discrepancy is large enough (see guidance for definitions) to require a third analysis. When large discrepancies are obtained between two consecutive test results, the laboratory must either:  a) perform a third analysis; or;  b) report test results as inconclusive and add a comment that there was insufficient specimen to repeat the analysis.	A new aliquot from the original specimen should be used for the reanalysis. Specimen volume for capillary specimens may be insufficient for retesting purposes. In this case, report initial result and request an additional specimen from the provider for confirmatory testing (See BLS S9).  Large discrepancies between two consecutive tests are defined as differences exceeding 3 micrograms/dL for blood lead levels 5 to 20 micrograms/dL; 4 micrograms/dL for values 21 to 40 micrograms/dL; or 10% for values exceeding 40 micrograms/dL. In these cases, the specimen should be analyzed a third time, the outlier result should be discarded and either report the average or the first obtained of the remaining results. For any result exceeding 5 micrograms/dL, or if there is any uncertainty in the validity of the test, the patient should be referred for confirmatory testing (See BLS S9).	Blood Lead ASV Sensors Sustaining Standard of Practice 7 (BLS S7): Repeat Analysis  All specimens which initially result in blood lead levels greater than or equal to 5 micrograms/dL shall be reanalyzed a second time if the volume of the original specimen permits. Use the average of the two consecutive test results to determine whether the discrepancy is large enough (see guidance for definitions) to require a third analysis. When large discrepancies are obtained between two consecutive test results, the laboratory must either:  a) perform a third analysis; or;  b) report test results as inconclusive and add a comment that there was insufficient specimen to repeat the analysis.	A new aliquot from the original specimen should be used for the reanalysis. Specimen volume for capillary specimens may be insufficient for retesting purposes. In this case, report initial result and refer patient for confirmatory testing (See BLS S10).  Large discrepancies between two consecutive tests are defined as differences exceeding 3 µg/dL for blood lead levels 5 to 20 µg/dL; 4 µg/dL for values 21 to 40; or 10% for values exceeding 40 µg/dL. In these cases, the specimen should be analyzed a third time, the outlier result should be discarded and either report the average or the firs obtained of the remaining results. For any result exceeding 5 µg/dL, or if there is any uncertainty in the validity of the test, the patient should be referred for confirmatory testing (See BLS S10).

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Screening Tests Sustaining Standard of Practice 8 (BLS S8): Reporting Potential Contamination  If a specimen is received in a blood collection container that is not certified for blood lead testing, and the result is above the reference value (greater than or equal to 5 micrograms/dL), the report shall indicate that the use of unverified containers might produce a falsely elevated result.	When a specimen is received in a blood collection tube that is either not provided by the testing laboratory or not certified as lead-free and the blood level is less than 5 micrograms/dL, the blood lead result can be reported without comment.  Trace element "free" tubes or containers that have been lot-tested in-house are acceptable alternatives to manufacturer certified blood lead tubes, and need not be footnoted in the test report.	Blood Lead ASV Sensors Sustaining Standard of Practice 8 (BLS S8): Reporting Potential Contamination  If a specimen is received in a blood collection container that is not certified for blood lead testing, and the result is above the reference value (≥ 5µg/dL), the report shall indicate that the use of unverified containers might produce a falsely elevated result.	When a specimen is received in a blood collection tube that is either not provided by the testing laboratory or not certified as lead-free and the blood level is less than 5 micrograms/dL, the blood lead result can be reported without comment.  Trace element "free" tubes or containers that have been lot-tested in-house are acceptable alternatives to manufacturer certified blood lead tubes, and need not be footnoted in the test report.

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
NONE		Blood Lead ASV Sensors Sustaining Standard of Practice 9 (BL S9): Potential for Fingerstick Contamination  Elevated capillary blood lead levels (greater than 5 micrograms/dL) shall be reported with a comment that capillary blood levels greater than 5 micrograms/dL may be due to contamination from lead found on the finger surface and require confirmation with venous blood.	
Blood Lead Screening Tests Sustaining Standard of Practice 9 (BLS S9): Confirmatory Testing When blood lead concentrations greater than or equal to 5 micrograms/dL are obtained the laboratory must either: a) if sufficient venous blood remains, refer the specimen to a NYS-permitted laboratory holding the permit category of Toxicology – Blood Lead - Comprehensive for confirmatory testing by a method categorized as a high complexity test; or	a) An unopened venous specimen is preferable for confirmatory testing. When this is not possible or feasible (e.g. with young children), and the confirmed result is also elevated, the confirming laboratory can acknowledge the issue on the test report. Test result comment example: "The test specimen may have been compromised during previous testing. Result should be confirmed with another venous blood specimen."	Blood Lead ASV Sensors Sustaining Standard of Practice 10 (BLS S10): Confirmatory Testing with LeadCare and/or LeadCare II  When blood lead concentrations greater than or equal to 5 micrograms/dL are obtained from a venous sample the laboratory must either:  a) if sufficient sample remains, refer the specimen to a NYS- permitted laboratory holding the permit category of Toxicology – Blood Lead - Comprehensive for confirmatory testing by a high	a) An unopened venous specimen is preferable for confirmatory testing. When this is not possible or feasible (e.g. with young children), and the confirmed result is also elevated, the confirming laboratory can acknowledge the issue on the test report. Test result comment example: "The test specimen may have been compromised during previous testing. Result should be confirmed with another venous blood specimen."

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
b) request a venous blood specimen from the provider for confirmatory testing; or c) indicate on the report the method used, that the result is for screening purposes only, and that the result needs to be confirmed by a reference method.	released with a comment that results of confirmatory testing are pending.  c) Examples of reference methods include high complexity tests such as inductively coupled mass spectrometry (ICP-MS) and graphite furnace atomic absorption spectrometry (GFAAS).  c) The following comment can be used on laboratory test reports to clinical health care providers: "For children 5 years old and younger, blood lead levels ≥5 µg/dl indicate that they may have been exposed to lead at levels higher than most children. The blood lead level should be confirmed using a venous blood sample and a NYS-permitted high complexity analytic method according the recommendations of the CDC Advisory Committee on	complexity reference method (ICP-MS or GFAAS); or  b) indicate on the report the method used and that the result needs to be confirmed by a high complexity reference method (ICP-MS or GFAAS).	released with a comment that results of confirmatory testing by a high complexity reference method are pending.  b) Examples of reference methods include high complexity tests such as inductively coupled mass spectrometry (ICP-MS) and graphite furnace atomic absorption spectrometry (GFAAS).  b) The following comment can be used on laboratory test reports to clinical health care providers: "For children 5 years old and younger, blood lead levels ≥5 µg/dl indicate that they may have been exposed to lead at levels higher than most children. The blood lead level should be confirmed using a venous blood sample and a NYS-permitted high complexity analytic method according the recommendations of the CDC	
	Childhood Lead Poisoning Prevention. Since no safe BLL in children has been identified, no detectable level should be considered 'normal'."		Advisory Committee on Childhood Lead Poisoning Prevention. Since no safe BLL in children has been identified, no detectable level should be	

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### Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

	Blood Lead – ASV Screen Printed Sensors				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance		
			considered 'normal'."		
		Blood Lead ASV Sensors Sustaining Standard of Practice 11 (BLS S11): Confirmatory Testing with LeadCare Plus or LeadCare Ultra  When blood lead concentrations greater than or equal to 40 micrograms/dL are obtained from a venous sample the laboratory must either:  a) if sufficient venous blood remains, refer the specimen to a NYS-permitted laboratory holding the permit category of Toxicology – Blood Lead - Comprehensive for confirmatory testing by a high complexity reference method (ICP-MS or GFAAS); or  b) indicate on the report the method used and that the result needs to be confirmed by a high complexity reference method (ICP-MS or GFAAS).	a) An unopened venous specimen is preferable for confirmatory testing. When this is not possible or feasible (e.g. with young children), and the confirmed result is also elevated, the confirming laboratory can acknowledge the issue on the test report.  Test result comment example: "The test specimen may have been compromised during previous testing. Result should be confirmed with another venous blood specimen."  a) Preliminary results may be released with a comment that results of confirmatory testing are pending.  b) Examples of reference methods include high complexity tests such as inductively coupled mass spectrometry (ICP-MS) and graphite furnace atomic absorption spectrometry (GFAAS).		

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## Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors				
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
			b) The following comment can be used on laboratory test reports to clinical health care providers: "For children 5 years old and younger, blood lead levels ≥5 µg/dl indicate that they may have been exposed to lead at levels higher than most children. The blood lead level should be confirmed using a venous blood sample and a NYS-permitted high complexity analytic method according the recommendations of the CDC Advisory Committee on Childhood Lead Poisoning Prevention. Since no safe BLL in children has been identified, no detectable level should be considered 'normal'."	

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## Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance
Blood Lead Screening Tests Sustaining Standard of Practice 10 (BLS S10): Method Comparison  When specimens have been referred for confirmatory testing, laboratories must compare and maintain a log of blood lead results obtained from their point-of-care (POC) device(s) with results reported using the confirmatory reference method.	Differences in results greater than 3 micrograms/dL for blood lead levels 5 to 20 micrograms/dL; 4 micrograms/dL for values 21 to 40 micrograms/dL; or 10% for values exceeding 40 micrograms/dL require further investigation.  A review of competency assessments of testing personnel as well as data from quality control and proficiency testing can provide insights on testing performance.	Blood Lead ASV Sensors Sustaining Standard of Practice 12 (BLS S12): Method Comparison  When specimens have been referred for confirmatory testing, laboratories must compare and maintain a log of blood lead results obtained from their device(s) with results reported using the confirmatory reference method.	Differences in results greater than 3 µg/dL for blood lead levels 5 to 20 µg/dL; 4 µg/dL for values 21 to 40 µg/dL; or 10% for values exceeding 40 µg/dL require further investigation.  A review of competency assessments of testing personnel as well as data from quality control and proficiency testing can provide insights on testing performance.

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# Crosswalk of Proposed Revision to Blood Lead Standards (changes have been underlined)

	Blood Lead – ASV Screen Printed Sensors			
Current Standard	Current Guidance	Proposed Standard	Proposed Guidance	
		Blood Lead ASV Sensors Sustaining Standard of Practice 13 (BLS S13): Reporting In addition to the report requirements defined in Reporting Sustaining Standard of Practice 1 (Reporting S1): Report Content, the laboratory report must contain:  a) the methodology used in analysis; and b) for test results on exposed adults, a reference interval of <5 ug/dL.		

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