

**A Message from the IRIS Program**  
**IRIS Program Outlook**  
**February 2023**

The IRIS Program is committed to producing assessments in a timely and transparent manner. Table 1 describes assessments that are currently in development and their projected public release dates. The IRIS Program is providing this information so that stakeholders are aware of upcoming assessment products, and to allow the public and research community an opportunity to communicate relevant research to EPA. When made public, the documents listed in Table 1 can be found at Regulations.gov in the IRIS public comment dockets. Docket numbers are listed on the IRIS website here: <https://iris.epa.gov/Dockets/>. While IRIS assessments are not proposed rulemakings, Regulations.gov serves as both an internal portal to facilitate public comment and as a document repository for Federal government agencies.

Projected dates are based on factors such as the scope of the assessment (e.g., size and complexity of a chemical's evidence base)<sup>i</sup> and resource availability. Nearer-term activities are estimated using current Fiscal Year (FY) and Quarter. Long-term milestones are projected only for the FY due to the increased uncertainty of projecting timelines at the Quarter level. While projected dates reflect the IRIS Program's best estimate at this time based on available information, they are subject to change. Changes to estimated dates typically result from additional time needed to address the scientific challenges unique to each chemical assessment, new data, or to respond to internal, public, and/or peer review comments, in addition to current EPA priorities and the availability of staff with the appropriate expertise to address those challenges. The IRIS Program Outlook is updated at least three times each calendar year (February, June, October).

Additional information regarding other pertinent products relating to IRIS assessments and IRIS Program activities is included in Table 2 and Table 3. For questions regarding the IRIS Program activities, visit the [Contact Us](#) page on the EPA Website. For press inquiries, visit EPA's Office of Public Affairs [website](#).

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<sup>i</sup> The scope of IRIS assessments is generally presented in the IRIS Assessment Plan (IAP). Information regarding size of the evidence base and expected key areas of scientific complexity is available in these documents. For information on how IAPs are developed, please see the IRIS Handbook: [https://cfpub.epa.gov/ncea/iris\\_drafts/recordisplay.cfm?deid=356370](https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=356370).

**Table 1. IRIS Assessment Products/Activities – February 2023**

Assessment	Public Product(s)/Activity	Projected Date
<a href="#">Arsenic, Inorganic</a>	Systematic Review Protocol	<a href="#">Released on May 28, 2019 for a 30-day public comment period until June 27, 2019.</a>  <a href="#">NAS review meeting July 16, 2019.</a>
	Public Comment Draft	FY23 Q3
	External Peer Review	FY23 Q4
<a href="#">Chloroform (Inhalation)</a>	IRIS Assessment Plan	<a href="#">Released on September 18, 2017 for a 30-day public comment period until October 18, 2017.</a>  <a href="#">Public Science Meeting on September 27, 2017.</a>
	Systematic Review Protocol	<a href="#">Released on January 31, 2018 for a 30-day public comment period until March 2, 2018.</a>
	Public Comment Draft	FY23 Q4
	External Peer Review	FY23 Q4
<a href="#">Chromium VI</a>	Systematic Review Protocol	<a href="#">Released on March 15, 2019 for a 45-day public comment period until April 29, 2019.</a>  <a href="#">Public Science Meeting on April 24, 2019.</a>
	Public Comment Draft	<a href="#">Released on October 20, 2022 for a 60-day public comment period until December 19, 2022.</a>
	External Peer Review	Public External Peer Review Meeting: February 15 (pre-meeting) and March 29-31, 2023. See the <a href="#">SAB website.</a>
	Final	TBD
<a href="#">Cobalt and Cobalt Compounds (Inhalation, Cancer)</a>	IRIS Assessment Plan and Protocol	<a href="#">Released on November 14, 2022 for a 30-day public comment period.</a>  <a href="#">Public Science Meeting on January 11, 2023.</a>
	Public Comment Draft	FY24
	External Peer Review	FY24

<b>Assessment</b>	<b>Public Product(s)/Activity</b>	<b>Projected Date</b>
<a href="#">Ethylbenzene</a>	IRIS Assessment Plan	<a href="#">Released on September 18, 2017 for a 30-day public comment period until October 18, 2017.</a>  <a href="#">Public Science Meeting on September 27, 2017.</a>
	Systematic Review Protocol	<a href="#">Released on February 17, 2023 for a 30-day public comment period until March 20, 2023.</a>
	Public Comment Draft	TBD
	External Peer Review	TBD
<a href="#">Formaldehyde</a>	Public Comment Draft	<a href="#">Released April 14, 2022 for a 60-day public comment period until June 13, 2022</a>
	External Peer Review	<a href="#">See the National Academies of Sciences, Engineering, and Medicine (NASEM) website</a>
	Final	TBD
<a href="#">Inorganic Mercury salts</a>	IRIS Assessment Plan	<a href="#">Released on October 8, 2019 for a 30-day public comment period until November 7, 2019.</a>  <a href="#">Public science meeting on December 5, 2019</a>
	Systematic Review Protocol	<a href="#">Released on March 11, 2021 for a 30-day public comment period until April 12, 2021.</a>
	Public Comment Draft	FY24
	External Peer Review	FY24
<a href="#">Methylmercury</a>	IRIS Assessment Plan	<a href="#">Released on April 4, 2019 for a 30-day public comment period until May 6, 2019.</a>  <a href="#">Public Science Meeting on May 15, 2019</a>
	Systematic Review Protocol	<a href="#">Released on May 28, 2020 for a 45-day public comment period until July 13, 2020.</a>
	Public Comment Draft	FY24
	External Peer Review	FY24

Assessment	Public Product(s)/Activity	Projected Date
<a href="#">Naphthalene</a>	IRIS Assessment Plan	<a href="#">Released on July 5, 2018 for a 30-day public comment period until August 6, 2018; extended until September 5, 2018.</a>  <a href="#">Public Science meeting originally scheduled for August 23, 2018 held November 9, 2021.</a>
	Systematic Review Protocol	FY23 Q2
	Public Comment Draft	TBD
	External Peer Review	TBD
<a href="#">Perfluorobutanoic Acid (PFBA)</a>	Systematic Review Protocol	<a href="#">Released on November 8, 2019 for a 45-day comment period until December 23, 2019.</a>
	Public Comment Draft	<a href="#">Released on August 23, 2021 for a 60-day public comment period until October 22, 2021;</a>
	External Peer Review	<a href="#">Public External Peer Review Meeting: February 22-23, 2022</a>
	Final	<a href="#">Posted December 2022</a>
<a href="#">Perfluorodecanoic Acid (PFDA)</a>	Systematic Review Protocol	<a href="#">Released on November 8, 2019 for a 45-day public comment period until December 23, 2019.</a>
	Public Comment Draft	FY23 Q2
	External Peer Review	FY23 Q3
<a href="#">Perfluorohexanoic acid (PFHxA)</a>	Systematic Review Protocol	<a href="#">Released on November 8, 2019 for a 45-day public comment period until December 23, 2019.</a>
	Public Comment Draft	<a href="#">Released on February 2, 2022</a> for a 60-day public comment period until April 4, 2022.
	External Peer Review	<a href="#">Public External Peer Review Meeting: May 16-17, 2022</a> <a href="#">Peer Review Report: August 2022</a>
	Final	FY23 Q2
<a href="#">Perfluorohexanesulfonic Acid (PFHxS)</a>	Systematic Review Protocol	<a href="#">Released on November 8, 2019 for a 45-day public comment period until December 23, 2019.</a>
	Public Comment Draft	FY23 Q3
	External Peer Review	FY23 Q4

Assessment	Public Product(s)/Activity	Projected Date
<a href="#">Perfluorononanoic Acid (PFNA)</a>	Systematic Review Protocol	<a href="#">Released on November 8, 2019 for a 45-day public comment period until December 23, 2019.</a>
	Public Comment Draft	FY23 Q4
	External Peer Review	FY23 Q4
<a href="#">Polychlorinated Biphenyls (PCBs; Oral, Noncancer)</a>	Systematic Review Protocol	<a href="#">Released on December 19, 2019 for a 30-day public comment period until January 21, 2020.</a>
	Public Comment Draft	FY24
	External Peer Review	FY25
<a href="#">Uranium</a>	IRIS Assessment Plan	<a href="#">Released on January 31, 2018 for a 30-day public comment period until March 2, 2018.</a>  <a href="#">Public Science Meeting on March 22, 2018</a>
	Systematic Review Protocol	FY23 Q3
	Public Comment Draft	TBD
	External Peer Review	TBD
<a href="#">Vanadium and Compounds (Oral)</a>	IRIS Assessment Plan	<a href="#">Released on July 24, 2020 for a 30-day comment period until August 24, 2020. Extended until September 23, 2020.</a>  <a href="#">Public Science Meeting on August 19, 2020</a>
	Systematic Review Protocol	<a href="#">Released on April 26, 2021 for a 30-day public comment period until May 26, 2021.</a>
	Public Comment Draft	FY24
	External Peer Review	FY24
<a href="#">Vanadium and Compounds (Inhalation)</a>	IRIS Assessment Plan	<a href="#">Released on May 28, 2021 for a 30-day public comment period until June 28, 2021.</a>  <a href="#">Public Science Meeting on July 14, 2021.</a>
	Systematic Review Protocol	FY23 Q3
	Public Comment Draft	TBD

<b>Assessment</b>	<b>Public Product(s)/Activity</b>	<b>Projected Date</b>
	External Peer Review	TBD

**Table 2. Select Publications Related to IRIS Assessment Activities**

Related Assessment	Citation	Publication Date
Polychlorinated Biphenyls (PCBs; noncancer)	Kapraun DF, Zurlinden TJ, Verner MA, Chiang C, Dzierlenga MW, Carlson LM, Schlosser PM, Lehmann GM. A Generic Pharmacokinetic Model for Quantifying Mother-to-Offspring Transfer of Lipophilic Persistent Environmental Chemicals. <i>Toxicol Sci.</i> 2022 Sep 24; 189(2):155-174. doi: 10.1093/toxsci/kfac084.	<a href="#">Published</a> September 2022
Polychlorinated Biphenyls (PCBs; noncancer)	Weitekamp CA, Shaffer RM, Chiang C, Lehmann GM, Christensen K. An evidence map of polychlorinated biphenyl exposure and health outcome studies among residents of the Akwesasne Mohawk Nation. <i>Chemosphere.</i> 2022 Nov; 306:135454. doi: 10.1016/j.chemosphere.2022.135454.	<a href="#">Published</a> November 2022
Polychlorinated Biphenyls (PCBs; noncancer)	Carlson LM, Christensen K, Sagiv SK, Rajan P, Klocke CR, Lein PJ, Coffman E, Shaffer RM, Yost EE, Arzuaga X, Factor-Litvak P, Sergeev A, Toborek M, Bloom MS, Trgovcich J, Jusko TA, Robertson L, Meeker JD, Keating AF, Blain R, Silva RA, Snow S, Lin C, Shipkowski K, Ingle B, Lehmann GM. A systematic evidence map for the evaluation of noncancer health effects and exposures to polychlorinated biphenyl mixtures. <i>Environ Res.</i> 2023 Mar 1; 220:115148. doi:10.1016/j.envres.2022.115148.	<a href="#">Published Online</a> December 2022
PFNA	J.M. Wright, A.L. Lee, K.M. Rappazzo, H. Ru, E.G. Radke, T.F. Bateson, Systematic review and meta-analysis of birth weight and PFNA exposures, <i>Environmental Res.</i> 2023 April 1; 222:115357. doi.org/10.1016/j.envres.2023.115357.	<a href="#">Published Online</a> January 2023

**Table 3. Other IRIS Assessment support products**

Product	Public Step(s)	Date
ORD Staff Handbook for Developing IRIS Assessments (“IRIS Handbook”)	Final	<a href="#">December 2022</a>