

National Oceanic and Atmospheric Administration
National Status & Trends Program
National Mussel Watch Program
List of Publications
Last Updated – 09/29/2025

2025

1. Fuller, N., Kimbrough, K., Edwards, M.E., Maloney, E M., Corsi, S.R., Pronschinske, M.A., DeCicco, L.A., Frisch, J., Baldwin, A.K., Hummel, S.L., Vinas, N., & Villeneuve, D.L. (2025). Leveraging invasive mussel contaminant survey data for stepwise prioritization of chemicals of potential concern in the Great Lakes basin. *Environmental Toxicology and Chemistry*, 44(7), 2070-2087.
<https://doi.org/10.1093/etjnl/vgaf072>.
2. Swam, L.M., Rider, M.M., Tanabe, P., & Apeti, D.A. (2025). A 2020 assessment of legacy organic contaminants on the South Atlantic coast. NOAA Technical Memorandum NOS NCCOS 358. Silver Spring, MD. 105 pp. <https://repository.library.noaa.gov/view/noaa/70583>.
3. Swam-Jaramillo, L.M., Rider, M.M., & Apeti, D.A. (2025). A 2019 assessment of legacy organic contaminants in the Pacific Northwest. NOAA Technical Memorandum NOS NCCOS 355. Silver Spring, MD. 73 pp. <https://repository.library.noaa.gov/view/noaa/67351>.
4. Swam-Jaramillo, L.M., Rider, M.M., Apeti, D.A., & Reed, L. (2025). A 2019 assessment of trace metals in the Pacific Northwest. NOAA Technical Memorandum NOS NCCOS 351. Silver Spring, MD. 73 pp. <https://repository.library.noaa.gov/view/noaa/66948>.
5. Swam-Jaramillo, L.M., Rider, M.M., Tanabe, P., Apeti, D.A., & Reed, L. (2025). A 2020 assessment of trace metals on the South Atlantic Coast. NOAA Technical Memorandum NOS NCCOS 356. Silver Spring, MD. 119 pp. <https://repository.library.noaa.gov/view/noaa/70300>.
6. Tanabe, P. Swam-Jaramillo, L.M., Rider, M.M., Apeti, D.A., & Pisarski, E.C. (2025). A 2020 assessment of contaminants of emerging concern on the South Atlantic Coast. NOAA Technical Memorandum NOS NCCOS 352. Silver Spring, MD. 65 pp.
<https://repository.library.noaa.gov/view/noaa/67049>.

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7. Edwards, M.A., Pugh, A., Davenport, E.D., & Johnson, W.E. (2024). A Retrospective Assessment and Characterization of Per- and Polyfluoroalkyl Substances (PFASs) in the Great Lakes. NOAA Technical Memorandum NOS NCCOS 345. <https://doi.org/10.25923/6x63-2422>.
8. Edwards, M.A., Kimbrough, K., Fuller, N., Davenport, E., Rider, M., Freitag, A., Regan, S., Leight, A., Burkart, H., Jacob, A., & Johnson, E. (2024). An assessment and characterization of pharmaceuticals and personal care products (PPCPs) within the Great Lakes Basin: Mussel Watch Program (2013–2018). *Environmental Monitoring and Assessment*, 196 (345).
<https://doi.org/10.1007/s10661-023-12119-3>.
9. Fuller, N., Kimbrough, K., Edwards, M.A., Davenport, E., Jaruga, P., Ringwood, A., & Johnson, E. (2024). Chemical Contamination and Bivalve Health in the Milwaukee Estuary: An Integrated

Assessment Case Study (2017 - 2018). NOAA Technical Memorandum NOS NCCOS 330.

<https://doi.org/10.25923/e40y-hd78>.

10. Key, P.B., Daugomah, J.W., Rider, M.M., Pisarski, E.C., Reed, L.A., Shaddrix, B.S., Chung, K.W., Wirth, E.F., & DeLorenzo, M.E. (2024). Environmental Quality Assessment of Water and Sediment at Cape Lookout National Seashore. NOAA Technical Memorandum NOS NCCOS 333. <https://doi.org/10.25923/7d2b-ap19>.
11. Swam, L.M., Rider, M.M., & Apeti, D.A. (2024). A 2018 assessment of legacy organic contaminants in the Southern California Bight. NOAA Technical Memorandum NOS NCCOS 343. Silver Spring, MD. 103 pp. <https://repository.library.noaa.gov/view/noaa/66186>.
12. Swam, L.M., Rider, M.M., & Apeti, D.A. (2024). A 2017 assessment of legacy organic contaminants in the Gulf of AMERICA. NOAA Technical Memorandum NOS NCCOS 326. Silver Spring, MD. 72 pp. <https://repository.library.noaa.gov/view/noaa/56329>.
13. Swam-Jaramillo, L.M., Pugh, A., Rider, M.M., Apeti, D.A., & Pisarski, E. (2024). A 2019 assessment of contaminants of emerging concern in the Pacific Northwest. NOAA Technical Memorandum NOS NCCOS 346. Silver Spring, MD. 73 pp. <https://repository.library.noaa.gov/view/noaa/66652>.
14. Swam, L.M., Rider, M.M., Apeti, D.A., & Reed, L. (2024). A 2018 assessment of trace metals in the Southern California Bight. NOAA Technical Memorandum NOS NCCOS 340. Silver Spring, MD. 104 pp. <https://repository.library.noaa.gov/view/noaa/65614>.

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15. Ankley, G.T., Corsi, S.R., Custer, C.M., Ekman, D.R., Hummel, S.L., Kimbrough, K.L., Schoenfuss, H.L., & Villeneuve, D.L. (2023). Assessing contaminants of emerging concern in the Great Lakes ecosystem: A decade of method development and practical application. *Environmental Toxicology and Chemistry*, 42(12), 2506-2518. <https://doi.org/10.1002/etc.5740>.
16. Apeti, D.A., Rider, M.M., Mason, A.L., Leight, A.K., & Wirth, E. (2023). A 2015 assessment of legacy organic contaminants in the Chesapeake Bay, MD. NOAA Technical Memorandum NOS NCCOS 318. Silver Spring, MD. 64 pp. <https://doi.org/10.25923/tept-6x98>.
17. Aquilina-Beck, A., Reed, L.A., Rider, M., Burdine, W., Daugomah, J., Apeti, D., Key, P., & DeLorenzo, M. (2023). Employing molecular, chemical and physiological techniques using *Crassostrea virginica* to assess ecosystem health along coastal South Carolina and North Carolina, United States. *Environmental Research*, 236(2). <https://doi.org/10.1016/j.envres.2023.116817>.
18. Fuller, N., Kimbrough, K.L., Davenport, E., Edwards, M., & Johnson, W.E. (2023). A Comparison of dreissenid mussels and passive samplers as monitors of contaminants of emerging concern and polycyclic aromatic hydrocarbons in the Great Lakes. NOAA Technical Memorandum NOS NCCOS 317. <https://doi.org/10.25923/kk5w-3r94>.
19. Fuller, N., Kimbrough, K.L., Davenport, E., Edwards, M.E., Jacob, A., Chandramouli, B., & Johnson, W.E. (2023). Contaminants of concern and spatiotemporal metabolomic changes in Quagga mussels (*Dreissena bugensis rostriformis*) from the Milwaukee Estuary (Wisconsin, USA). *Environmental Toxicology and Chemistry*, 43(2), 307–323. <https://doi.org/10.1002/etc.5776>.

20. Legrand, E., Bayless, A.L., Bearden, D.W., Casu, F., Edwards, M., Jacob, A., Johnson, W.E., and Schock, T.B. (2023). Untargeted metabolomics analyses and contaminant chemistry of dreissenid mussels at the Maumee River area of concern in the Great Lakes. *Environmental Science & Technology*, 57(48), 19169-19179. <https://doi.org/10.1021/acs.est.3c00812>.
21. Swam, L.M., Apeti, D.A., Rider, M.M., Jones, S., & Reed, L. (2023). A 2015/2016 assessment of legacy organic contaminants and trace metals in the Gulf of Maine. NOAA Technical Memorandum NOS NCCOS 319. Silver Spring, MD. 116 pp. <https://repository.library.noaa.gov/view/noaa/52110>.
22. Swam, L.M., Rider, M.M., Apeti, D.A., & Pisarski, E. (2023). A 2017 assessment of contaminants of emerging concern in the Gulf of Mexico. NOAA Technical Memorandum NOS NCCOS 323. Silver Spring, MD. 70 pp. <https://repository.library.noaa.gov/view/noaa/56181>.
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24. Warner, R., Apeti, D.A., Rider, M., Hartwell, I., Arzayus, F., & Swam, L. (2022). National Status and Trends, Mussel Watch Program: An assessment and comparison of chemical contaminants in surficial sediments from Hudson-Raritan Estuary from 1991 and 2018. NOAA Technical Memorandum NOS NCCOS 315. Silver Spring, MD. 45 pp. <https://doi.org/10.25923/dee6-pz25>.
25. Dampier, J.M., Apeti, D.A., Rider, M.M., & Reed, L. (2022). A 2017 assessment of metals in the Gulf of AMERICA. NOAA Technical Memorandum NOS NCCOS 314. Silver Spring, MD. 50 pp. <https://repository.library.noaa.gov/view/noaa/48947>.

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26. Apeti, D.A., Rider, M.M., Jones, S., Wirth, E., & Regan, S. (2021). A 2015/2016 assessment of contaminants of emerging concern in the Gulf of Maine. NOAA Technical Memorandum NOS NCCOS 291. Silver Spring, MD. 118 pp. <https://repository.library.noaa.gov/view/noaa/31574>.
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30. Kimbrough, K., Jacob, A., Regan, S., Davenport, E., Edwards, M., Leight, A.K., Freitag, A., Rider, M., & Johnson, W.E. (2021). Characterization of polycyclic aromatic hydrocarbons in the Great Lakes Basin using *dreissenid* mussels. *Environmental Monitoring and Assessment*, 193(833). <https://doi.org/10.1007/s10661-021-09401-7>.

31. Pisarski, E.C., Wirth, E.F., Pennington, P.L., Hartwell, I., Shaddrix, B.S., Whittall, D.R., Apeti, D.A., & Baker, G. (2021). Assessment of the efficacy of six field cleaning protocols for hydrocarbon quantification. *Environmental Science and Pollution Research*, 28, 32310-32320. <https://doi.org/10.1007/s11356-021-12896-9>.

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32. Rider, M.M., Apeti, D.A., Jacob, A.P., Kimbrough, K.L., Davenport, E.D., Bower, M., Coletti, H.A., & Esler, D. (2020). A synthesis of ten years of chemical contaminant monitoring data in National Park Service - Southeast and Southwest Alaska Networks. NOAA Technical Memorandum NOS NCCOS 277. Silver Spring, MD. 110 pp. <https://doi.org/10.25923/dbyq-7z17>.

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34. Apeti, D.A., Wirth, E., Leight, A.K., Mason, A., & Pisarski, E. (2018). An assessment of contaminants of emerging concern in Chesapeake Bay, MD and Charleston Harbor, SC. NOAA Technical Memorandum NOS NCCOS 240. Silver Spring, MD. 104 pp. <https://doi.org/10.25923/p4nc-7m71>.
35. Kimbrough, K.L., Johnson, W.E., Jacob, A.P., Edwards, M.A., & Davenport, E.D. (2018). Great Lakes Mussel Watch: Assessment of contaminants of emerging concern. NOAA Technical Memorandum NOS NCCOS 249. Silver Spring, MD. 66pp. <https://doi.org/10.25923/2jp9-pn57>.
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41. Edwards, M.A., Jacob, A.P., Kimbrough, K.L., Johnson, W.E., & Davenport, E.D. (2016). Great Lakes Mussel Watch sites land-use characterization and assessment. NOAA Technical Memorandum NOS NCCOS 208. Silver Spring, MD. 138 pp. <http://doi.org/10.7289/V5/TM-NOS-NCCOS-208>.
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