

Julieta Peluso

Nationality: Argentina

Date of birth: 10/12/1992

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MyCitation (Google Scholar):

<https://scholar.google.com/citations?user=UqePG9kAAAAJ&hl=es&oi=ao>

Academic training

COLLEGE DEGREE

Bachelor of Biological Sciences Orientation Ecology and Environment

Institution: Facultad de Ingeniería y Ciencias Biológicas, Universidad Favaloro

Thesis title: "Evaluation of the quality of surface waters of Buenos Aires agricultural areas through ecotoxicological studies with *Rhinella arenarum*" at the Instituto de Investigación e Ingeniería Ambiental, Universidad Nacional de San Martín.

Tutor: Dr. Carolina M. Aronzon.

Defense date: 12/21/2015

DOCTORAL DEGREE

PhD in Science and Technology, Chemistry mention

Thesis title: Evaluation of the quality of water bodies that belong to the Paraná river lower basin through physicochemical and toxicological indicators.

Institution: Ecotoxicology Laboratory that belong to the IIIA-UNSAM-CONICET, Instituto de Investigación e Ingeniería Ambiental, Escuela de Hábitat y Sostenibilidad, Campus Miguelete, 25 de mayo y Francia, 1650-San Martín, Provincia de Buenos Aires, Argentina

Tutor: Dr. Carolina M. Aronzon; **Co-tutor:** Cristina S. Pérez Coll. **Defense date:** 02/18/2021

POSTDOCTORAL RESEARCH

April 2021-2025. CONICET internal postdoctoral fellowship.

Project title: Evaluation of the toxicity and biomarkers of emerging pollutants from the livestock industry on native anurans as contamination diagnostic tools.

Institution: Ecotoxicology Laboratory that belong to the IIIA-UNSAM-CONICET, Instituto de Investigación e Ingeniería Ambiental, Escuela de Hábitat y Sostenibilidad, Campus Miguelete, 25 de mayo y Francia, 1650-San Martín, Provincia de Buenos Aires, Argentina

Tutor: Dr. Carolina M. Aronzon. **Co-tutor:** Cristina S. Pérez Coll.

LANGUAGES

- English: High level. First Certificate (December 2013)

Occupation

2025–Present. Assistant Researcher at CONICET (National Scientific and Technical Research Council) with working space in the Ecotoxicology Laboratory that belong to the IIIA-UNSAM-CONICET, Instituto de Investigación e Ingeniería Ambiental, Escuela de Hábitat y Sostenibilidad, Campus Miguelete, 25 de mayo y Francia, 1650-San Martín, Provincia de Buenos Aires, Argentina

Publications

INTERNATIONAL JOURNALS

- Peluso, J.;** de la Torre, M.; Teglia, C.M.; Gutierrez, F.A.; Aronzon, C.M. (2026). "Synergistic effects of two commonly used personal care products, benzophenone-3 (BP-3) and N,N-diethyl-meta-toluamide (DEET), on amphibian survival and development." *Environmental Toxicology and Pharmacology*, 105027. <https://doi.org/10.1016/j.etap.2026.105027>
- Noya Abad, T.; **Peluso, J.;** Knack de Almeida, H.; Minaberry, Y.S.; Rojas, D.; Cristos, D.; Aronzon, C.M.; Calcagno,

- J.A.; Sabatini, S.E. (2026). "The influence of hydro-meteorological phenomena on pollutant bioavailability in the Paraná River delta." *Wetlands Ecology and Management*, 34(2):23. <https://doi.org/10.1007/s11273-026-10126-y>
3. Aronzon, C.M.; Barreiro, C.; **Peluso, J.**; Salomone, V.; Tascon, M.; Svartz, G. (2025). "Ecotoxicity and water quality assessment of the Reconquista River (Buenos Aires, Argentina) by standardized bioassays on early developmental stages of a native amphibian (*Rhinella arenarum*)." *International Journal of Environment and Pollution*. <https://doi.org/10.1504/IJEP.2025.10071747>
 4. **Peluso, J.**, Martínez Chehda, A., Cuzziol Boccioni, A.P., Peltzer, P.M., Lajmanovich, R.C., Olivelli, M.S., De Geronimo, E., Aparicio, V., Gonzalez, F., Valenzuela, L., Aronzon, C.M. (2025). "The impact of dairy effluent on water quality and ecotoxicological effects on amphibian larvae." *Chemistry and Ecology*, 41(4), 423–443. <https://doi.org/10.1080/02757540.2025.2453708>
 5. **Peluso, J.**, Aronzon, C.M., Chehda, A.M., Olivelli, M.S., Boccioni, A.P.C., Lajmanovich, R.C., Peltzer, P.M. (2024). "Toxicological effects of the emerging contaminant ivermectin on *Physalaemus santafecinus* larvae." *International Journal of Environment and Health*, 11(2), 90–102. <https://doi.org/10.1504/IJENVH.2024.144133>
 6. Lacava, J.E., Olivelli, M.S., **Peluso, J.**, Aronzon, C.M., Quintana, R.D. (2024). "Morphological Responses and Accumulation of the Emerging Contaminant Ivermectin in *Salvinia minima*." *Wetlands*, 44(8), 107. <https://doi.org/10.1007/s13157-024-01864-x>
 7. **Peluso, J.**, Martínez Chehda, A., Olivelli, M.S., Ivanic, F.M., Butler, M., Aparicio, V., De Geronimo, E., Gonzalez, F., Valenzuela, L., Candal, R.J., Aronzon, C.M. (2024). "Impacts of cattle management and agricultural practices on water quality through different approaches: physicochemical and ecotoxicological parameters." *Environmental Science and Pollution Research*, 1–15. <https://doi.org/10.1007/s11356-024-34059-2>
 8. **Peluso, J.**, Chehda, A.M., Olivelli, M.S., Aronzon, C.M. (2024). "Ecotoxicological effects of the emerging contaminant ivermectin on *Rhinella arenarum*: A comparative study of active ingredient and commercial formulation." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 109965. <https://doi.org/10.1016/j.cbpc.2024.109965>
 9. **Peluso, J.**, Gamarra, F., Aronzon, C.M. (2024). "Synergistic interactions between the emerging contaminant ivermectin and the ubiquitous pesticide glyphosate at an environmentally relevant ratio on *Rhinella arenarum* larvae." *Chemosphere*, 358, 142058. <https://doi.org/10.1016/j.chemosphere.2024.142058>
 10. **Peluso, J.**, Chehda, A.M., Aronzon, C.M. (2024). "A multi-approach analysis of the toxicity of a commercial formulation of monensin on *Rhinella arenarum* embryos and larvae." *Environmental Toxicology and Pharmacology*, 108, 104454. <https://doi.org/10.1016/j.etap.2024.104454>
 11. **San Martín, G.**, Aronzon, C., Karagueuzian, J., Grimson, R. (2024). "Educación Ambiental en clave territorial: colaboración escuela secundaria-universidad para el intercambio de experiencias y saberes científicos en el Conurbano Bonaerense." *Masquedós-Revista de Extensión Universitaria*, 9(11), 12–12. El Grupo de Extensión en Humedales y Ambiente está compuesto por (GREHAM-San Martín): Carolina M. Aronzon, María V. Cardo, Rafael Grimson, Lucía Migone, Julieta Peluso, Alejandra Rubio, Facundo Schivo y Gabriela Svartz, Itatí Moreno, Pablo Pereira, y por Victoria Blanch Flower, Tania Dellepiane, Juan Karagueuzian, Ana Saura y Jerónimo Valle. <https://doi.org/10.58313/masquedodos.2024.v9.n11.266>
 12. **Peluso, J.**, Aronzon, C.M., Martínez Chehda, A., Cuzziol Boccioni, A.P., Peltzer, P.M., Gonzalez, F., Valenzuela, L., De Geronimo, E., Aparicio, V., Lajmanovich, R.C. (2023). "Water and sediment quality of an agro-industrial area through different approaches: Physicochemical parameters and ecotoxicity with amphibians." *Water Environment Research*, 95(6), e10899. <https://doi.org/10.1002/wer.10899>
 13. **Peluso, J.**, Martínez Chehda, A., Olivelli, M.S., Ivanic, F.M., Pérez Coll, C.S., Gonzalez, F., Valenzuela, L., Rojas, D., Cristos, D., Butler, M., Candal, R.J., Aronzon, C.M. (2023). "Metals, pesticides, and emerging contaminants on water bodies from agricultural areas and the effects on a native amphibian." *Environmental Research*, 226, 115692. <https://doi.org/10.1016/j.envres.2023.115692>
 14. Noya Abad, T., **Peluso, J.**, Minaberry, Y.S., Rojas, D.E., Cristos, D., Knack de Almeida, H., Yusseppone, M.S., Aronzon, C.M., Calcagno, J.A., Sabatini, S.E. (2022). "Efectos de las actividades antrópicas sobre parámetros metabólicos en un bivalvo invasor y otro nativo en el tramo inferior del río Paraná." *Ecología Austral* (2022). <https://doi.org/10.25260/EA.22.32.3.0.1989>
 15. **Peluso, J.**, Aronzon, C.M., Martínez Chehda, A., Cuzziol Boccioni, A.P., Peltzer, P.M., De Geronimo, E., Aparicio, V., Gonzalez, F., Valenzuela, L., Lajmanovich, R.C. (2022). "Environmental quality and ecotoxicity of sediments from the lower Salado River basin (Santa Fe, Argentina) on amphibian larvae." *Aquatic Toxicology*, 106342. <https://doi.org/10.1016/j.aquatox.2022.106342>
 16. Cuzziol Boccioni, A.P., Lener, G., **Peluso, J.**, Peltzer, P.M., Attademo, A.M., Aronzon, C.M., Simoniello, M.F., Demonte, L.D., Repetti, M.R., Lajmanovich, R.C. (2022). "Comparative assessment of individual and mixture chronic toxicity of glyphosate and glufosinate ammonium on amphibian tadpoles: A multibiomarker approach." *Chemosphere*, 309, 136554. <https://doi.org/10.1016/j.chemosphere.2022.136554>
 17. **Peluso, J.**, Pérez Coll, C.S., Rojas, D.E., Cristos, D., Aronzon, C.M. (2022). "Ecotoxicological assessment of complex

- environmental matrices from the lower Paraná River basin.” *Chemosphere*, 305, 135385. <https://doi.org/10.1016/j.chemosphere.2022.135385>
18. Lourido, M., **Peluso, J.**, Aronzon, C.M. (2022). “Lethal and sublethal effects of the emerging contaminant oxytetracycline on the embryo-larval development of *Rhinella arenarum*.” *Environmental Toxicology and Pharmacology*, 103783. <https://doi.org/10.1016/j.etap.2021.103783>
 19. **Peluso, J.**, Furió Lanuza, A., Pérez Coll, C.S., Aronzon, C.M. (2021). “Synergistic effects of glyphosate- and 2,4-D-based pesticide mixtures on *Rhinella arenarum* larvae.” *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-021-16784-0>
 20. **Peluso, J.**, Pérez Coll, C.S., Cristos, D., Rojas, D.E., Aronzon, C.M. (2021). “Comprehensive assessment of water quality through different approaches: Physicochemical and ecotoxicological parameters.” *Science of The Total Environment*, 149510. <https://doi.org/10.1016/j.scitotenv.2021.149510>
 21. Acquaroni, M., **Peluso, J.**, Svartz, G., Aronzon, C., Pérez Coll, C.S. (2021). “Characterization of acute toxicity, genotoxicity, and oxidative stress of dimethoate in *Rhinella arenarum* larvae.” *Environmental Science and Pollution Research*, 1–8. <https://doi.org/10.1007/s11356-021-13691-2>
 22. **Peluso, J.**, Pérez Coll, C.S., Aronzon, C.M. (2021). “In situ exposure of amphibian larvae (*Rhinella fernandezae*) to assess water quality by means of oxidative stress biomarkers in water bodies with different anthropic influences.” *Chemosphere*, 129598. <https://doi.org/10.1016/j.chemosphere.2021.129598>
 23. **Peluso, J.**, Aronzon, C.M., Acquaroni, M., Pérez Coll, C.S. (2020). “Biomarkers of genotoxicity and health status of *Rhinella fernandezae* populations from the lower Paraná River Basin, Argentina.” *Ecological Indicators*, 117, 106588. <https://doi.org/10.1016/j.ecolind.2020.106588>
 24. **Peluso, J.**, Aronzon, C.M., Ríos de Molina, M.C., Rojas, D.E., Cristos, D., Pérez Coll, C.S. (2020). “Integrated analysis of the quality of water bodies from the lower Paraná River basin with different productive uses by physicochemical and biological indicators.” *Environmental Pollution*, 114434. <https://doi.org/10.1016/j.envpol.2020.114434>
 25. Aronzon, C.M., **Peluso, J.**, Pérez Coll, C.S. (2020). “Mixture toxicity of copper and nonylphenol on the embryo-larval development of *Rhinella arenarum*.” *Environmental Science and Pollution Research*, 1–10. <https://doi.org/10.1007/s11356-020-07857-7>
 26. **Peluso, J.**, Aronzon, C.M., Pérez Coll, C.S. (2019). “Assessment of environmental quality of water bodies next to agricultural areas of Buenos Aires Province (Argentina) by means of ecotoxicological studies with *Rhinella arenarum*.” *Journal of Environmental Science and Health, Part B*. <https://doi.org/10.1080/03601234.2019.1622979>

BOOK CHAPTERS

- Aronzon, C.M., **Peluso, J.**, Cardo, M.V., Rubio, A. (2025). “Escuela y universidad en acción por la salud ambiental del territorio.” En *¿En qué conurbano queremos vivir? Vol. 3*. Editorial AAPC. Capítulo 13.
- **Peluso, J.**, Aronzon, C.M., Pérez Coll, C.S. (2018). “Estudio de indicadores fisicoquímicos y toxicológicos del agua superficial del bajo Río Paraná.” En *Agua + Humedales (Serie FUTUROS)*, UNSAM Edita, pp. 303–318. ISBN 978-987-4027-68-9.
- Krug, P., Aronzon, C.M., González Garraza, G., **Peluso, J.**, Schivo, F., Svartz, G. (2018). “Uso de múltiples indicadores para evaluar la calidad ambiental en las islas del delta del Río Paraná bajo diferentes usos productivos.” En *Agua + Humedales (Serie FUTUROS)*, UNSAM Edita, pp. 370–377. ISBN 978-987-4027-68-9.

CONGRESS PRESENTATIONS

Total number of presentations: 53

Last three years’ presentations:

1. Clauser C.D., **Peluso J.**, Aronzon C., Barrionuevo F., Alí Santoro V., Morandeira N. “Land use changes and anthropogenic impacts due to rice fields in Santa Fe (Argentina)”. Tropentag 25, September, 2025. Bonn, Germany.
2. Aronzon, C.M.; **Peluso, J.**; Palacio, L.; Chaparro, G.; Sabio y Garcia, C.; Sanchez, M.L. “Assessment of water toxicity in the Lower Paraná Delta using ecotoxicological parameters.” XI Argentine Limnology Congress, 28 July – 1 August 2025, Corrientes, Argentina.
3. De la Torre, M.; Aronzon, C.M.; **Peluso, J.** “Toxicity assessment of mixtures of two emerging personal-care contaminants in a native indicator species.” XIV Young Researchers Conference, June 2025, Faculty of Veterinary Sciences, Buenos Aires, Argentina.
4. Núñez, M.P.; **Peluso, J.**; Aronzon, C.M.; Butler, M.; Itria, R.F. “Fungal treatments for the detoxification of cigarette butts: Toxicity bioassays with *Rhinella arenarum* larvae, the Argentine common toad.” IX SETAC Argentina Congress, 21–23 October 2024, Santa Fe, Argentina.
5. Noya Abad T.; Knack De Almeida H.; **Peluso J.**; Minaberry Y.S.; Aronzon C.M.; Calcagno J.A.; Sabatini S. “Effects

- of anthropogenic activities on metabolic, morphological, and histological parameters in a native and an invasive bivalve species in the Paraná de las Palmas River (Buenos Aires, Argentina)." XII Congress on Ecology and Management of Pampean Aquatic Ecosystems (EMEAP). 23–25 October 2024. Miramar, Buenos Aires.
6. Clauser David; **Peluso J.**; Aronzon C.M.; Alí Santoro V.; Morandeira N. "Water quality and biomarker responses as a consequence of rice cultivation in Bajo de los Saladillos (Santa Fe) during planting and harvest seasons." XII Congress on Ecology and Management of Pampean Aquatic Ecosystems (EMEAP). 23–25 October 2024. Miramar, Buenos Aires.
 7. Clauser David; **Peluso J.**; Aronzon C.M.; Alí Santoro V.; Calfayan L.; Morandeira N. "Changes in water conditions associated with rice fields in Bajo de los Saladillos (Santa Fe) under drought and flooding scenarios: Ecotoxicological and physicochemical analysis." XII Congress on Ecology and Management of Pampean Aquatic Ecosystems (EMEAP). 23–25 October 2024. Miramar, Buenos Aires.
 8. Martínez Chehda A.; Gonzalez Porzio M.; Aronzon C.M.; **Peluso J.**; Candal R.J.; Guz L.M. "Presence, quantification, and characterization of microplastics in a lowland river under different productive land uses." XII Congress on Ecology and Management of Pampean Aquatic Ecosystems (EMEAP). 23–25 October 2024. Miramar, Buenos Aires.
 9. Martínez Chehda A.; **Peluso J.**; Gonzalez F.; Valenzuela L.; Aparicio V.; De Geronimo E.; Aronzon C.M. "Water quality of the Areco River under different land uses: physicochemical parameters, metals, pesticides, and ecotoxicological tools applied to a native amphibian." XII Congress on Ecology and Management of Pampean Aquatic Ecosystems (EMEAP). 23–25 October 2024. Miramar, Buenos Aires.
 10. Santilli J.P.; **Peluso J.**; Martínez Chehda A.; Aronzon C.M. "Oxidative stress and cholinergic biomarkers in *Cnesterodon decemmaculatus* inhabiting impacted areas." I Latin American Conference – One Health – One Aquaculture. August 2024.
 11. De la Torre M.; Aronzon C.M.; **Peluso J.** "Determination of the lethal concentration of the emerging contaminant DEET in a native species." I Latin American Conference – One Health – One Aquaculture. August 2024.
 12. De la Torre M.; Aronzon C.M.; **Peluso J.** "Comparative study of the toxicity of two sunscreen filters in a native species." I Latin American Conference – One Health – One Aquaculture. August 2024.
 13. **Peluso J.**; Martínez Chehda A.; Olivelli M.S.; Ivanic F.M.; Butler M.; Aparicio V.; De Geronimo E.; Gonzalez F.; Valenzuela L.; Candal R.J.; Aronzon C.M. "Physicochemical and ecotoxicological analysis of an agricultural area." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 14. **Peluso J.**; Martínez Chehda A.; Cuzziol Boccioni A.P.; Peltzer P.M.; De Geronimo E.; Aparicio V.; Gonzalez F.; Valenzuela L.; Lajmanovich R.C.; Aronzon C.M. "Environmental and ecotoxicological quality of the lower Salado River basin." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 15. **Peluso J.**; Gamarra F.; Aronzon C.M. "Ivermectin and glyphosate: Synergistic interaction in *Rhinella arenarum* larvae." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 16. Montaldo D.; **Peluso J.**; Alonso L.; Aronzon C.M. "Land use and its effects on the water quality of the Cañuelas Stream." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 17. Clauser D.C.; **Peluso J.**; Aronzon C.M.; Alí Santoro V.; Morandeira N. "Impact of rice fields in Santa Fe on water quality and biomarker responses." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 18. Martínez Chehda A.; **Peluso J.**; Cuzziol Boccioni A.P.; Peltzer P.; Gonzalez F.; Valenzuela L.; De Geronimo E.; Aparicio V.; Lajmanovich R.C.; Aronzon C.M. "Water and sediment quality in an agro-industrial area." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 19. Martínez Chehda A.; **Peluso J.**; Gómez Ros M.; Morandeira N.; Gonzalez F.; Valenzuela L.; Aparicio V.; De Gerónimo E.; Aronzon C.M. "Quality of the Areco River: a comprehensive study using different approaches." XXX Argentine Ecology Meeting. 17–20 October 2023. Poster presentation.
 20. Clauser D.C.; **Peluso J.**; Aronzon C.M.; Alí Santoro V.; Morandeira N. "Changes in water quality associated with rice fields in Bajo de los Saladillos (Santa Fe): ecotoxicological and physicochemical analyses." IV Ibero-American Limnology Congress and X Argentine Limnology Congress. 31 July–4 August 2023. Poster presentation.
 21. Noya Abad T.; **Peluso J.**; Leis M.; Aronzon C.M.; Calcagno J.A.; Sabatini S.E. "Implications of physicochemical variables on the oxidative balance of an invasive bivalve." IV Ibero-American Limnology Congress and X Argentine Limnology Congress. 31 July–4 August 2023. Poster presentation.
 22. **Peluso J.**; Aronzon C.M.; Martínez Chehda A.; Olivelli M.S.; Cuzziol Boccioni A.P.; Lajmanovich R.C.; Peltzer P.M. "Toxicological effects of the emerging contaminant ivermectin, widely used in livestock production, on larvae of *Physalaemus santafecinus*." IV Ibero-American Limnology Congress and X Argentine Limnology Congress. 31 July–4 August 2023. Poster presentation.
 23. Martínez Chehda A.; **Peluso J.**; Gómez Ros M.; Morandeira N.; Aparicio V.; De Gerónimo E.; González F.; Valenzuela L.; Aronzon C.M. "Comprehensive analysis of the environmental quality of the upper Areco River basin." IV Ibero-American Limnology Congress and X Argentine Limnology Congress. 31 July–4 August 2023. Poster presentation.

Human resources training

Student Supervision: Supervision and co-supervision of 8 undergraduate, graduate, and postgraduate students, including 2 PhD candidates, 3 research fellows, 2 undergraduate theses, and 1 specialization project, in the fields of ecotoxicology, water quality, and environmental monitoring.

Courses

Completed 8 specialized postgraduate and professional training courses in ecotoxicology, toxicology, environmental management, environmental forensics, scientific writing, and wastewater treatment.

Teaching experience

CURRENT POSITIONS

- 2025–present: Associate Professor, Toxicology. Environmental Management Program. Faculty of Engineering and Exact Sciences, Argentine University of Enterprise (UADE).
- 2021- present: Titular Professor at Environmental Toxicology. Biological Sciences Career. Facultad de Ingeniería y Ciencias Biológicas, Universidad Favaloro

PAST POSITIONS

- 2017-2020: Assistant professor at Environmental Toxicology. Biological Sciences Career. Facultad de Ingeniería y Ciencias Biológicas, Universidad Favaloro

Science Communication, Outreach and Knowledge Transfer

- 26 science communication and knowledge transfer activities, including university extension projects, public lectures, media appearances, and technical reports supporting environmental monitoring and management by municipalities and environmental organizations.

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Funding for research and extension projects

PARTICIPATION in 8 different research projects

DIRECTION

- EHyS Project 2026. “Water quality and urban waste: diagnosis and mitigation strategies in urbanized water bodies of the General San Martín district.” Project of the School of Habitat and Sustainability – UNSAM. AR\$ 8,000,000. UNSAM University Extension Project. “Water quality: an educational approach for conservation and community participation.” National Secretariat of Education – Resolution RESOL-2024-1440-APNSE#MCH. Provision No. 30/2025 – Secretariat of Outreach and Engagement. AR\$ 500,000.
- PICT-2021-I-INVI-00187 (2023–2025). “Analysis of the quality of lotic bodies tributary to the Paraná River through an integrated approach.” AR\$ 1,601,460.

Summary of Professional Experience

As an Assistant Researcher at CONICET and Associate Professor of Environmental Toxicology, my work has focused on advancing the field of aquatic ecotoxicology through the evaluation of emerging contaminants, complex environmental matrices, and water quality using native amphibians as bioindicators. My main contributions include the publication of more than 25 peer-reviewed articles in international journals, the supervision of undergraduate and postgraduate students, the leadership and participation in nationally funded research projects, and the translation of scientific knowledge into technical reports, environmental monitoring programs, and science outreach activities that support environmental management and conservation.