

LeeAnn Racz, Ph.D., PE, CIH, BCEE

SUPERVISING ENGINEER

CONTACT INFORMATION

ToxStrategies, A BlueRidge Life Sciences Company
190 T C Jester Blvd., Suite 420
Houston, TX 77007
Phone (850) 966-9324
lracz@toxstrategies.com

PROFESSIONAL PROFILE

Dr. LeeAnn Racz is a Board-Certified Environmental Engineer and Certified Industrial Hygienist and a member of ToxStrategies' Exposure Sciences practice. With a background in environmental health and workplace exposure assessment, Dr. Racz completed a 23-year career with the US Air Force before entering the consulting arena. She is a subject-matter expert in environmental health risk assessment, industrial hygiene, environmental engineering, and drinking-water and wastewater evaluation and protection. She has led a large group of health professionals and commanded a medical readiness squadron during a military career that spanned eight Air Force bases across the US, in South Korea, and in the UK.

Dr. Racz has assembled and led numerous teams in areas that include industrial hygiene and environmental compliance education, emergency response readiness, industrial hygiene research, response and recovery at aircraft crash and other accident sites, noise sampling and analysis, aerospace medicine services, and optimization of medical readiness. She has also directed radiation safety programs and managed radiation surveys. As a consultant, Dr. Racz has worked with a global manufacturing company (17 locations) to develop and implement pandemic protective measures. She has also supported program management and published technical handbooks on environmental and occupational health.

Dr. Racz serves as an ABET (formerly, Accreditation Board for Engineering and Technology) Program Evaluator in environmental engineering and as an advisor to the National Council of Examiners for Engineering and Surveying (NCEES). She is an editor of seven technical handbooks, author of 20 scientific publications and five other technical papers, and has presented at more than 30 scientific conferences.

EDUCATION AND DEGREES EARNED

- 2010 Ph.D., Environmental Engineering
University of Utah
- 2004 M.S., Biological and Agricultural Engineering
University of Idaho
- 1996 B.S., Environmental Engineering
California Polytechnic State University, San Luis Obispo

CERTIFICATIONS

- Board-Certified Environmental Engineer (BCEE), #13-20014, Awarded 2013
- Certified Industrial Hygienist (CIH), #10284, Awarded 2013
- Professional Engineer (PE)
Colorado #39374, Awarded 2005
Florida #PE89801, Awarded 2020
- Lean/Six Sigma Green Belt, Awarded 2017

PROFESSIONAL ASSOCIATIONS

- American Academy of Environmental Engineers and Scientists
- American Industrial Hygiene Association
- American Conference of Governmental Industrial Hygienists

SELECTED PROFESSIONAL EXPERIENCE

Industrial Hygiene

Evaluated applicability of airborne phthalic anhydride sampling methods to exposure standards; advised US Environmental Protection Agency on limitations of available methods and suitability under the Toxic Substances Control Act (TSCA).

Led and conducted qualitative comprehensive industrial hygiene assessment for polyethylene piping manufacturer.

Consulted on potential for overexposure of pesticides from occupational and consumer uses.

Advised a global manufacturing company with worldwide plant operations on how to safely do business during the COVID-19 pandemic. Recommended specific engineering and administrative controls to keep employees healthy and productive, such as screening procedures, ventilation adjustments, and cleaning protocols.

Provided consultation on the “office of the future” to enable flexibility in work/life balance and better quality of work and personal life.

Led 50 environmental and occupational health professionals in providing exposure assessment and mitigation guidance to 684,000 personnel at 176 installations across the globe.

Led 55 personnel in ensuring the environmental and occupational health at 20 locations in three countries. Oversaw full spectrum of chemical, biological, noise, radiation, ergonomic, and other hazard assessments and controls. Implemented workplace hazard identification, prioritization, and control processes.

Taught technical courses and oversaw federal installation response plans for chemical (e.g., phosgene, VX, sarin, and soman), biological, and radiological agent releases.

Developed protocol for determining impact noise hearing protection device requirements. Eliminated 21-month backlog of high-risk evaluations for 35 military bases.

Oversaw two laser committees and established incident reporting protocols.

Led Broken Arrow nuclear incident response teams, earning a positive evaluation from the Department of Energy.

Supervised radiation safety at 20 federal locations. Oversaw radioactive material storage, shipment, and handling procedures, as well as permits.

Implemented protocol for novel isocyanate sampling method. Established benchmark for US Air Force procedures.

Performed formaldehyde air sampling of medical students during cadaver work. Implemented specialized engineering ventilation controls to protect faculty and students.

Designed and implemented in-depth evaluation of 100 base radiofrequency radiation emitters.

Established base radon working group and developed exposure mitigation plan.

Directed comprehensive respiratory protection programs at seven bases, including fit testing, worker training, medical clearance, and worker tracking, to ensure worker safety.

Identified data gaps in radiofrequency radiation program at phased array radar site in Greenland. Performed in-depth exposure survey and advised on protective measures.

Conducted comprehensive early-warning radar system radiation evaluation.

Surveyed and developed disposal plan for 12,000 radioactive material items.

Risk Assessment

Assessed potential for community members to be overexposed to accidental hydrogen sulfide releases.

Led review of potential hazards and community exposures to chemicals and radiation associated with unconventional natural gas operations.

Evaluated risks of human and environmental overexposures to poly- and perfluoroalkyl substances (PFAS) from legacy contamination and ongoing chemical usage.

Advised on scientific basis and suitability of PFAS exposure standards.

Directed protective measures for personnel responding to a mercury spill.

Evaluated response operations and facility for re-occupancy following a large anhydrous ammonia release.

Performed emergency release exposure modeling for industrial operations.

Conducted exposure modeling for Proposition 65 chemicals. Determined allowable exposures for compliance with regulations.

Coordinated response, cleanup, and corrective actions for widespread hexavalent chromium contamination in aircraft maintenance facility.

Directed investigation into aircraft crew toluene exposure in emergency air tanks. Rapidly implemented novel use of air monitoring equipment to maintain flying operations.

Oversaw legacy radiation surveys for three major federal bases. Evaluated risks from environmental contamination.

Protected response and recovery personnel at two major aircraft crashes by directing environmental and health-and-safety teams. Advised on measures to protect personnel and property.

Managed water lead sampling for three schools. Implemented risk mitigation and advised parents and teachers on overexposure risks and corrective actions.

Guided high-visibility asbestos spill response and recovery plan. Coordinated extensive sampling plan and advised on risks and cleanup.

Instituted Ebola containment measures at two overseas locations.

Directed research into hyperspectral imaging for rapid chemical contamination in buildings.

Established research into chemical warfare agent contamination on drinking-water infrastructure using malathion as a surrogate. Evaluated chemical interactions with pipe materials.

Performed toxic industrial material vulnerability assessments at six federal bases. Identified hazards and implemented measures to reduce risk.

Directed stadium sweeps and standby response teams for high-visibility US Air Force Academy events.

Led chemical storage ventilation study. Found design error and advised on corrections for safe storage of 10,000 chemicals.

Designed and executed airborne particulate study during hospital renovations. Ensured particulate controls in sensitive eye surgery areas.

Developed first-responder pilot programs at four bases; called “best program in Department of Defense.”

Led response to tear gas powder attack on federal site. Coordinated with law enforcement to identify agent and advised on protective measures.

Oversaw responses and cleanup actions for mercury, fuel, organic solvent, suspicious white powders, and other hazardous material spills.

Evaluated indoor air quality complaints in office buildings and athletic facilities. Surveyed ventilation systems and possible sources of hazardous agents.

Environmental Assessment

Evaluated environmental impacts and risks from end-of-life tire uses; developed leaching and distribution models for chemicals from products using end-of-life tires.

Directed research on cryomilled tire tread extraction and leachate analysis.

Consulted on potential impacts from electric arc furnace slag leachate test results.

Developed a state-of-knowledge report on brake-wear particle generation, testing methods, environmental contamination, and human health effects.

Advised on the state of the science on environmental factors related to cyanotoxin production.

Comprehensively reviewed the state of knowledge on cumulative risk and impacts related to environmental justice concerns.

Oversaw drinking-water sampling and analysis programs at four federal locations, including publishing Consumer Confidence Reports. State regulators called drinking-water program “Gold Standard.”

Directed US Air Force drinking-water data gap analysis. Established tools to streamline reporting processes.

Managed water vulnerability assessments at 10 federal bases. Identified threats to water quality and coordinated mitigation actions.

Developed novel ultraviolet light emitting diode reactor for drinking-water treatment.

Evaluated biological treatment capabilities and bacterial metabolic pathways of malathion and propylene glycol.

Developed new sampling and analysis protocol for quantifying estrogens and other chemicals in activated sludge, which accounted for biological degradation and physical sorption.

Discovered effect of differing carbon sources on ammonia-oxidizing bacteria in a mixed culture.

Educated Utah wastewater professionals on implications of nanoparticles in wastewater.

Researched seasonal variation effect on bacterial ecology at full-scale wastewater treatment plants.

Oversaw renovations at two swimming pools to fix 20-year problem. The diving coach praised the resulting water chemistry as "best ever."

Identified and coordinated solution for silver recovery sampling discrepancy in a hospital.

Directed internal and external environmental compliance audits at five bases across the US and South Korea. Corrected longstanding deficiencies and identified best practices.

Updated base Hazardous Waste Management Plan and Spill Plan to streamline response procedures and more effectively protect human health and the environment.

Performed area air sampling and air emissions inventories and prepared Clean Air Act Title V permit applications for landfills and wastewater treatment facilities.

Education, Training, and Organizational Leadership

Chaired a session at the 43rd annual meeting of the Society of Environmental Toxicology and Chemistry (SETAC): "Improving Community Exposure Assessment Using Personal and Local Monitors."

Received Professional Certificate, Architecture and Systems Engineering: Models and Methods to Manage Complex Systems, Massachusetts Institute of Technology

Established installation Human Performance Working Group that resolved long-standing and emerging concerns on physiological stressors in five operational organizations.

Led 165 personnel in delivering primary and preventive aerospace medicine services to 8,900 members at most deployed base in US Air Force.

Directed emergency response training event for multi-team response to chemical spills and established decontamination standards.

Led 27 faculty and staff in providing graduate education to 200 students.

Promoted success of 700 students by establishing Dean's advisory board.

Organized two international symposia on chemical, biological, radiological, and nuclear research and response.

Designed and delivered three-day course for 13 bases in use of chemical, biological, and radiological defense equipment.

Built comprehensive proficiency testing plan in 13 response equipment items for 800 personnel.

Ensured mission readiness of 1,615 personnel by leading team of eight in providing 2,600 hours of instruction in exposure assessments, industrial hygiene, and environmental compliance.

Oversaw 18 instructors in streamlining and updating emergency response course.

Tested capabilities of nine emergency response teams as lead architect of first US Air Force competition.

Guided development of four-day radiofrequency radiation course and safe use of active denial system.

PUBLISHED ARTICLES

Rish W, **Racz L**, Hale A. 2026. Public radiation dose from conventional gas-well produced water used as a pavement deicer. *J Waste Manag Assoc* 76(1):13-27.

Racz L, Gauthier A, Bare J, Heintz M, Feifarek D, Kennedy S, Panko J. 2024. Assessment of perfluorocarboxylic acids in fluorinated high-density polyethylene containers and estimation of potential non-cancer risks associated with anticipated use scenarios. *Reg Tox Pharm* 147(Feb):105560.

Racz L, Rish W. 2022. Exposure monitoring toward environmental justice. *Integ Environ Assess Manag* 18(4):858-862.

Verwiel A, **Racz L**, Mittal L, Rish W. 2022. CDC's national report on human exposure to environmental chemicals. *SETAC Globe* 23(6); June 1. Available at: <https://www.setac.org/resource/cdc-report-human-exposure-to-chemicals.html>.

Badiru AB, **Racz L**, Grinston RL. 2016. Coordinated maintenance. *Indust Eng Mag* 48(1):46-49.

Duckworth K, Spencer M, Bates C, Almquist C, Grimaila M, Magnuson M, Willison S, Phillips R, **Racz L**, Miller M. 2015. Advanced oxidation degradation kinetics as a function of ultraviolet LED duty cycle. *Water Sci Technol* 71(9):1375-1381.

Tran T, **Racz L**, Grimaila MR, Miller M, Harper WF Jr. 2014. Comparison of continuous versus pulsed ultraviolet light emitting diode use for the inactivation of *Bacillus globigii* spores. *Water Sci Technol* 70(9):1473-1480.

King ST, Sylvander M, Kheperu M, **Racz L**, Harper WF. 2014. Detecting recalcitrant organic chemicals in water with microbial fuel cells and artificial neural networks. *Sci Tot Environ* 497-498:527-533.

Delorit JD, **Racz L**. 2014. Evaluation of activated sludge for biodegradation of propylene glycol as an aircraft deicing fluid. *Water Environ Res* 86(4):366-371.

Janeczko AK, Walters EB, Schuldt SJ, Magnuson ML, Willison SW, Brown LM, Ruiz ON, Felker DL, **Racz L**. 2014. Fate of malathion and a phosphonic acid in activated sludge with varying solids retention times. *Water Res* 57:127-139.

Flory J, Kanel SR, **Racz L**, Impellitteri CA, Rendahandi GS, Goltz MN. 2013. Influence of pH on the transport of silver nanoparticles in saturated porous media: laboratory experiments and modeling. *J Nanopart Res* 15(3):2-11.

Schuldt S, Walters E, Janeczko A, Magnuson M, Willison S, **Racz L**. 2013. Fate of chemical warfare agents in wastewater treatment biomass. *CBRNe World*, February.

Racz L, Baker PA, Duckworth KL, Helene TR, Woodall BD. 2013. Environmental planning while deployed: Mission hindrance or enhancement? *Joint Force Quarterly* 70:30-33.

Racz L, Muller JG, Goel RK. 2012. Fate of selected estrogens in two laboratory scale sequencing batch reactors fed with different organic carbon sources. *Bioresource Technol* 110:35-41.

Goltz MN, Kim DS, **Racz L**. 2011. Using nanotechnology to detect nerve agents. *Air Space Power J* 25(2):56-60.

Datta T, **Racz L**, Kotay SM, Goel R. 2011. Seasonal variations of nitrifying community in trickling filter-solids contact (TF/SC) activated sludge systems. *Bioresource Technol* 102(3):2272-2279.

Racz L, Datta T, Goel RK. 2010. Effect of organic carbon on ammonia oxidizing bacteria in a mixed culture. *Bioresource Technol* 101(16):6454-6460.

Racz L, Datta T, Goel RK. 2010. Organic carbon effect on nitrifying bacteria in a mixed culture. *Water Sci Technol* 61(11):2951–2956.

Racz L, Goel RK. 2010. Fate and removal of estrogens from municipal wastewater. *J Environ Monit* 12(1):58–70.

Racz L, Goel RK. 2010. Estrogens in wastewater: What happens to them and why do we care? *Digested News*, Summer.

BOOKS EDITED

Racz L, Badiru AB. 2025. *Handbook of Emergency Response: A Human Factors and Systems Engineering Approach*, 2nd Edition. Taylor and Francis CRC Press: Boca Raton, FL.

Kempisty DM, **Racz L**. 2021. *Forever Chemicals: Environmental, Economic, and Social Equity Concerns with PFAS in the Environment*. Routledge: Taylor and Francis Group, ISBN 9780367456405.

Phillips K, Yamamoto DP, **Racz L**. 2020. *Total Exposure Health: An Introduction*. Taylor and Francis CRC Press: Boca Raton, FL.

Kempisty DM, Xing Y, **Racz L**. 2018. *Perfluoroalkyl Substances in the Environment: Theory, Practice and Innovation*. Taylor and Francis CRC Press: Boca Raton, FL.

Racz L, Eninger RM, Yamamoto DP. 2017. *Handbook of Respiratory Protection: Safeguarding Against Current and Emerging Hazards*. Taylor and Francis CRC Press: Boca Raton, FL.

Badiru AB, **Racz L**. 2015. *Handbook of Measurements: Benchmarks for Systems Accuracy and Precision*. Taylor and Francis CRC Press: Boca Raton, FL.

Badiru AB, **Racz L**. 2013. *Handbook of Emergency Response: A Human Factors and Systems Engineering Approach*. Taylor and Francis CRC Press: Boca Raton, FL.

PRESENTATIONS

Torres C, Kramer A, **Racz L**, Vivanco S, Panko J. Anticipating number of days that exceed OSHA proposed heat triggers. Abstract 1501, Poster Session 3, AIHA Connect 2026, New Orleans, LA, June 3, 2026.

Racz L, Gauthier A, Torres C, Panko J. 2025. Improving data reporting to avoid TSCA pitfalls: A call for engagement of downstream users. Poster presentation at International Consumer Product Health and Safety Organization 2025 Annual Meeting and Training Symposium, Orlando, FL, February 2025.

Racz L, Panko J. 2024. Use of gloves to assess PFAS risk to workers handling fluorinated containers. Presented to American Industrial Hygiene Association (AIHA) Connect 2024, Columbus, OH, May 2024.

Racz L, Mittal L, Perry CS, Blanchette A, Proctor D. 2023. Assessing sustainable applications of electric arc furnace steel slag as construction aggregate: Applications of probabilistic risk assessment and physiologically-based pharmacokinetic modeling. Poster presentation at Society of Environmental Toxicology and Chemistry North America 44th Annual Meeting, Louisville, KY, November 2023.

Rish W, Marschke S, **Racz L**, Mauro J. 2023. Radiation exposures from the beneficial use of alumina production residue (red mud). Poster presentation at Society of Environmental Toxicology and Chemistry North America 44th Annual Meeting, Louisville, KY, November 2023.

Racz L. PFAS: How did we get here and where are we going? Keynote address at Alliance of Hazardous Materials Professionals National Meeting, Las Vegas, NV, March 2022.

Racz L. Embracing an agile and lean six sigma culture for worker health. Presented to Alliance of Hazardous Materials Professionals National Meeting, Las Vegas, NV, March 2022.

Racz L, Rish W. Exposure monitoring toward environmental justice. Presented to Society of Environmental Toxicology and Chemistry 42nd Annual Meeting (virtual), November 2021.

Badiru AB, **Racz L**. Integrating systems thinking in interdisciplinary education programs: A systems integration approach. Podium presentation, American Society for Engineering Education, Salt Lake City, UT, June 2018.

Pham AT, Witter TM, **Racz L**. Royal Air Force Lakenheath health risk assessment process. Team Aerospace Operational Solutions Symposium, Tempe, AZ, August/September 2016.

Heline TR, Yamamoto DP, Felker DL, **Racz L**, Rubenstein MH. Field evaluation of solvent-free isocyanate sampling. Podium presentation and poster. Team Aerospace Operational Solutions Symposium, Tempe, AZ, August/September 2015. *2nd place winner in Health Risk Assessment: General category*

Williams S, McDonough V, **Racz L**. Modeling work effectiveness of firefighters with varying shift schedules. Podium presentation, American Industrial Hygiene Conference and Exposition (AIHce 2015), Salt Lake City, UT, May/June 2015.

Spencer MJ, Miller ME, Richwine J, Duckworth KL, **Racz L**, Grimaila MR, Magnuson M, Willison S, Phillips R. Pulsed and continuous UV LED reactor for water treatment. International Ultraviolet Association Americas Regional Conference, White Plains, NY, October 2014.

Heline TR, Yamamoto DP, Felker DL, **Racz L**, Rubenstein MH. Field evaluation of solvent-free sampling with di-*n*-butylamine for the determination of airborne monomeric and oligomeric 1,6-hexamethylene diisocyanate. Poster, American Industrial Hygiene Conference and Exposition, San Antonio, TX, May/June 2014.

Magnuson M, Minamyer S, Clark S, Hall J, Szabo J, Vekhter EP, Pildus IE, ..., **Racz L**, et al. Selected on-going homeland security water and wastewater decontamination research projects. 2013 EPA International Decontamination Research and Development Conference, Research Triangle Park, NC, November 2013.

Racz L, Miller M, Grimaila M, Magnuson M, Willison S, Tran T, Duckworth K, Spencer M, Richwine J. Ultraviolet light emitting diode use in water disinfection. 2013 Pilot Research Project Symposium, Cincinnati, OH, October 2013.

Racz L, Harper WF, Miller M, Grimaila M, Magnuson M, Willison S, Tran T, Duckworth K, et al. Ultraviolet light emitting diode use in water disinfection. Military Health Systems Research Symposium, Fort Lauderdale, FL, August 2013.

Racz L, Willison S, Magnuson M, Schuldt SJ, Walters E, Janeczko A. Fate of chemical warfare agents in municipal wastewater treatment systems. 245th American Chemical Society National Meeting, New Orleans, LA, April 2013.

Racz L, Willison S, Magnuson M, Schuldt SJ, Walters E, Janeczko A. Fate of organophosphorous chemical warfare agents in municipal wastewater treatment. 2013 CBRN Symposium, Air Force Institute of Technology, Wright-Patterson AFB, OH, April 2013.

Duckworth K, Tran T, Spencer M, Miller M, Grimaila M, **Racz L**. UV LED disinfection of water. 2013 CBRN Symposium, Air Force Institute of Technology, Wright-Patterson AFB, OH, April 2013.

Racz L, Walters E, Schuldt S, Janeczko A, Magnuson M, Willison S. Fate of chemical warfare agents in wastewater treatment biomass. Poster (won "Best Poster" award), CBRNe Convergence 2012, Norfolk, VA, October/November 2012.

Kanel SR, Dagher J, Meidinger T, Sizemore IE, **Racz L**, Impellitteri CA, Goltz MN. Fate and transport of silver nanoparticles and silver ions in saturated porous media: Laboratory experiments and modeling. 244th American Chemical Society National Meeting, Philadelphia, PA, 19-23 August 2012.

Willison S, **Racz L**, Schuldt SJ, Walters E. Fate of organophosphate chemical warfare agents (CWAs) in a municipal wastewater treatment system. American Water Works Association Annual Conference and Exposition, Dallas, TX, June 2012.

Flory JR, Kanel SR, **Racz L**, Impellitteri CA, Silva RG, Goltz MN. Influence of pH on the transport of silver nanoparticles in saturated porous media: Laboratory experiments and modeling. 86th American Chemical Society Colloid and Surface Science Symposium, Baltimore, MD, June 2012.

Kanel SR, Flory JR, **Racz L**, Goltz MN. Road towards sustainability: Understanding silver nanoparticle and silver ion transport in saturated media. American Society of Civil Engineers World Environmental and Water Resources Congress, Albuquerque, NM, May 2012.

Racz L. A systems approach to environmental studies. Industrial and Systems Engineering Research Conference (ISERC), Orlando, FL, May 2012.

Kanel SR, Flory J, **Racz L**, Impellitteri CA, Nadagouda M, Patterson C, Silva RG, Huang J, Goltz MN. Fate and transport of silver nanoparticles and related products in saturated porous media. Poster, 243rd American Chemical Society National Meeting, San Diego, CA, March 2012.

Racz L, Friend MA. Keeping graduate education relevant: Tying the Operational Air Force to the classroom. Air Education Training Command Symposium, San Antonio, TX, January 2012.

Flory J, Kanel SR, **Racz L**, Goltz MN. Transport of silver nanoparticles in saturated porous media: Experimental results and model simulations. Dayton Engineering Sciences Symposium, Fairborn, OH, October 2011.

Schuldt S, **Racz L**. Fate of chemical warfare agents in the environment. 4th CBRNE Research and Education Collaboration Symposium, Fairborn, OH, September 2011.

Flory J, Kanel SR, Dagher J, Pavel IE, **Racz L**, Huang J, Goltz MN. Transport of silver nano particles in saturated porous media and their prediction using mathematical model. Air Force Medical Service Medical Research Symposium, Washington, DC, August 2011.

Kanel SR, Dagher J, Flory J, Felker D, Pavel IE, **Racz L**, Huang J, Goltz MN. Fate and transport of silver nano particles in saturated porous media. Gordon Research Conference, Waterville Valley, NH, May/June 2011.

Racz L. Fate of chemical warfare agents in the environment. Third Annual CBRN Symposium, Air Force Institute of Technology, Wright-Patterson AFB, OH, April 2011.

Kanel SR, Flory J, Goltz MN, **Racz L**. Transport of engineered nanosilver particles in saturated porous media. 241st American Chemical Society National Meeting, Anaheim, CA, March 2011.

Racz L, Goel RK. Fate of selected estrogens in two laboratory scale sequencing batch reactors fed with different organic carbon sources. WEFTEC 2010 Proceedings, New Orleans, LA, October 2010.

Racz L, Goel RK. A systematic approach to evaluate the biodegradation kinetics of estrogens by nitrifying activated sludge. WEFTEC 2009 Proceedings, Orlando, FL, October 2009.

Racz L, Datta T, Kotay SM, Goel RK. Effect of carbon source on ammonia oxidizing bacteria community. 1st International Conference on Nitrification, Louisville, KY, July 2009.

Racz L, Goel RK. Comparison of estrogen degradation under various wastewater treatment schemes. 237th American Chemical Society National Meeting, Salt Lake City, UT, March 2009.