

Elaine Feldman

Environmental Engineer- Responsible for Environmental & Sustainability

West Chester, PA - Email me on Indeed: [indeed.com/r/Elaine-Feldman/23fd446236f70502](https://www.indeed.com/r/Elaine-Feldman/23fd446236f70502)

WORK EXPERIENCE

Environmental Engineer- Responsible for Environmental & Sustainability

FIKKER AUTOMOTIVE, INC - Wilmington, DE - May 2011 to April 2012

Wilmington, DE May 2011-April 2012

Environmental Engineer- Responsible for Environmental & Sustainability

- Oversaw the environmental compliance and sustainability initiatives for this start-up automotive plant.
- Defining and meeting environmental needs, filings, facilities and operations for this 3MM ft² plant.
- Baseline and benchmarking all utility and resource use.
- Identifying, evaluating, influencing and seeking funding to improve efficiency and operational reliability in electricity, fuel, chemicals, water and emissions and solid waste use and production
 - o Selected examples of opportunities to conserve identified to date:
 - > 20% of waste water. \$0.5MM/yr steam. 1000KW/hr electricity. >80% recovery of "Trash".
- Developing visioning and mission objectives and measure improvement.
- Developing company policy and procedures and site specific training.
- Preparing the plant to manufacture high-tech automobiles with high quality, while minimizing impacts.
- Managing cross-media environmental program; Air, EPCRA, Historic Liabilities, Solid Waste, Water, etc.
- Oversaw physical operations related to environmental; WWTP, Power Plant and in process.

LaSalle University - 2006 to 2011

2005 developed course 2006-2011

- Developed and taught senior level Environmental Sustainability- Emphasis on "How To" & in Regulatory Affairs
- Participated in organizing first campus-wide Environmental Sustainability Symposium. Brought back as speaker.

BlackGold Biofuels - January 2006 to 2010

- o Project managed the Design/Build/Installation of the first Trap Grease to Biodiesel Plant.
- o Consulted on issues such as wastewater, material and energy balances, environmental concerns, financial analyses and projections, vetting engineering and design/build firms etc.
- o Developed byproduct reuse strategies to eliminate fuel needs and minimize resource use.
- o Wrote brown grease use "white paper", comparing energy, economics, impacts, and feasibility.
- Consultant on Environmental Compliance, Waste Minimization and Energy Reduction.
- Presenter on: Sustainability in Manufacturing, Environmental Professionals Tools to Drive Sustainability,
- Consultant to former Employers on Historic Liability concerns.

INDEPENDENT CONSULTANT

- 2002 to 2010

Environmental Lead, North America

ZENECA AG PRODUCTS - Wilmington, DE - 1997 to 2001

Accountable to VPs of Manufacturing & Supply Chain. Responsive to Plant Managers.

- Oversaw, defined and audited environmental compliance every media for North American operations.

- Supported 7 chemical plants, for global/UK based company.
- Teamed with Safety and Industrial Hygiene professionals.
- Initiated and implemented corporate environmental strategies/guidelines.
- Worked with on-site environmental staff to facilitate improvement and foster collaboration:
Implemented programs to ensure compliance while improving resource use & business efficiency
Used metrics to track and drive improvement. Useage through emissions, GHG etc.
- Performed internal & suppliers audits. Developed action plans and tracked improvements.
- Managed Historic Liabilities and \$35MM reserve. Complex Texas >\$20MM and San Francisco Bay \$16MM
- Chosen as "Zeneca Achiever of the Year" March 2000

CONSULTING FOR Industrial Clients- While pursuing Masters 1996 - 1997

Manager Waste Treatment & Power Plants → Manager, Corp. Environment & Energy

CALORIC CORP. A Raytheon Company - Topton, PA - 1977 to 1995

Topton, PA 1977 - 1995

Progressive roles: Manager Waste Treatment & Power Plants → Manager, Corp. Environment & Energy
Initially reported to the Facilities Manager, ultimately to the Caloric President & Raytheon VP of Manufacturing.

SELECTED ACCOMPLISHMENTS BY CATEGORY:

REGULATORY COMPLIANCE:

- Interpreted regulations, developed compliance strategies, implemented & ran programs for all media including: NPDES, CWA, RCRA, CERCLA, SARA, TSCA, CAA, etc. and corresponding state/local programs.
- Participated in trade, professional and corporate-wide committees to respond to proposed and new regulations.

PHYSICAL OPERATIONS:

- Debugged/ran WWTP, established O&M, installed lab/performed analyses, reported, supervised operator.
- Debugged/ran/expanded boiler plant. Developed O&M, trained and directed work force.
- Worked with facilities and all production/process depts. Responsible for related systems throughout mfg. plant.
- Established/ oversaw hazardous and solid waste storage and recycling facilities.
- Responsible for an annual \$2.6 MM budget and other capital and remedial project budgets.
- Oversaw 3 mfg. locations: Audited. Hired and over saw staff. Trained multi-levels of company staff.

HISTORIC LIABILITY / REMEDIAL ACTIVITY:

- Removed UST's, asbestos, PCB contaminated equipment and established GW monitoring program at mfg. site.

- On-Site closures, with Positive Public and Regulatory involvement:

Decommissioned 100 yr.old, 1MM Sq.Ft. manufacturing plant: Completed on time, in \$2MM budget.

Completed \$8MM assessment/remediation to "No Further Action Letter", prior to PA Act 2.

- CERCLA Sites:

Developed CERCLA responses: Achieved >50% interim allocation reductions w/ legal staff

Served as expert and fact witness to resolve disputes. Served on CERCLA PRP technical groups.

REDUCED ENVIRONMENTAL FOOT PRINT DRAMATICALLY, WHILE PRODUCTION INCREASED 25%:

- **ENERGY:** Reduced annual costs 50% from >\$2MM/yr to \$1MM/yr.
- **WATER USE AND NPDES WASTE WATER DISCHARGE:** Reduced by 70% from 0.165MGD to <0.050MGD.
- **SOLID AND HAZARDOUS WASTE:** Reduced trash, saved \$270K/yr. Eliminated solvent wastes, saved \$10K/yr.

Reduced WWTP chemical use & sludge generation & improved effluent and, saved \$100K/yr.

Instituted reuse of process coatings, saved over 500,000 lb/yr and \$500K/yr.

- **AIR EMISSIONS:**

Reduced: VOCs 90%. Toxicity of chemistry impacting to IH, Air, Water and solid wastes. Particulates. 85 to >99%

- Relocated manufacturing plant: Dramatically reduced exposures by modifying processes and tightening controls.

EDUCATION

Masters in Environmental Pollution Control

Pennsylvania State University

1996

B.S. in Environmental Resource Management & B.S

Pennsylvania State University

1977

Certificate in Marine Science

Pennsylvania State University

1977