Gomathy Radhakrishna Iyer, PHD, EIT

Education

PhD – Civil Engineering (Environmental), University of Texas at Arlington, 2018

M. Tech – Environmental Science & Technology (Chemical Engineering), Anna University, India, 2014

B. Tech – Civil Engineering, University of Kerala, India, 2009

Professional Licenses

Engineer in Training: VA

Professional Affiliations

International Solid Waste Association

Professional Experience

Dr. Iyer is a Staff Professional at SCS Engineers in the Reston, Virginia office. She has 8 years of environmental research and engineering experience in water, wastewater, solid waste, leachate treatment and landfill design. Dr. Iyer has been involved in various projects at SCS with regional clients, utilizing her expertise in leachate management and landfill design. A few notable projects include:

Landfill Engineering

Prince George’s County, Maryland. Area C Expansion Involved with initial grading, landfill 3d modeling, geotechnical aspects of landfill design, leachate collection and removal system design for Phase 1, Phase 2 and Phase 3 permitting, preparing construction documents,

Leachate Management

Frederick County, Virginia. Leachate management Responsible for analyzing leachate collection system, determine source and analyze characteristics of liquid entering the system and assist with leachate volume reduction, management, and treatment.

Frederick County, Virginia. Preliminary Engineering Report Prepared a preliminary engineering report, which involved a feasibility study and detailed analysis of leachate treatment options.

Lancaster County Solidwaste Management Authority: Leachate Treatment feasibility study with analysis of leachate treatment options including consideration for PFAS.

Landfill gas Management

Prince George’s County, Maryland. Involved with Title V activities, including NSPS surface emissions and wellhead monitoring and reporting; Title V permit applications; NSPS and NESHAP semiannual and annual reporting for the landfill and the County Correctional Center (CCC).

Publications and Presentations

Iyer, G., Sattler, M., “Methane oxidation capacity of un-composted yard waste and other materials” Global Waste Management Symposium, February 2018.

Kaushal, V., Iyer, G., Najafi, M., Sattler, M., and Schug, K., “Review of Literature for Cured-in-Place Pipe (CIPP) Chemical Emissions and Worker Exposures.” Proc. Transportation Research Board Annual Meeting, Washington, D.C., 2019.

Kaushal, V., Iyer, G., Korky, S., Kakkera, S., Habibzadeh, S., Najafi, M., Sattler, M., and Schug, K., “Evaluation of potential release of organic chemicals in the steam exhaust and other release points during pipe rehabilitation using trenchless cured-in place pipe(CIPP) method” Technical Report: National Association of sewer service companies, April, 2018.

Krithika, D., Thomas, A.R., Iyer, G.R., “Spatio-temporal variation of septage characteristics of a semi-arid metropolitan city in a developing country” Environmental Science and Pollution Research August 7060-7076, 2017.

Bhatt, A., Iyer, G., Sattler, M., “Prioritization of city sewer manholes for corrosion protection” EM Magazine, December 2017.