## **Journal Articles**

- Schill S., McEwan R.S., Moffet R., Marrero J., MacDonald C., and Winegar E. (2022) Real-world application of open-path UV-DOAS, TDL, and FT-IR spectroscopy for air quality monitoring at industrial facilities. *Spectroscopy*, 37(S11), 18–22, (STI-7736), November 1. Available at https://www.spectroscopyonline.com/view/real-world-application-of-open-path-uv-doas-tdl-and-ftir-spectroscopy-for-air-quality-monitoring-at-industrial-facilities.
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## **Meeting Presentations and Conference Proceedings**

- Schill S., Marrero J., Moffet R., McEwan S., and McDonald C. (2022) Complementary and emerging techniques for fenceline monitoring. Presentation given at the *Air Sensors International Conference*, *Pasadena*, *CA*, *May 13*, 2022, by Sonoma Technology, Petaluma, CA. STI-7623.
- Winegar E., Macdonald C.P., and Schill S.R. (2022) Evolution and growth of industrial fenceline monitoring. Presentation given at the *4C Conference, Austin, TX, April 7*, by Sonoma Technology, Petaluma, CA. STI-7665.
- Winegar E., MacDonald C.P., and Schill S.R. (2022) Practical signal detection theory: combining rule-based and human factor-based data validation for fenceline data to ensure high trust and reliability.
  Presentation given at the *4C Conference, Austin, TX, April 7,* by Sonoma Technology, Petaluma, CA. STI-7664.
- Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Lessons learned from two years of refinery fenceline monitoring in California. Presentation given at the *Air & Waste Management Association Measurements Conference, San Diego, CA, March 9,* by Sonoma Technology, Petaluma, CA. STI-7694.

- Schill S.R. and MacDonald C.P. (2021) Complementary techniques for industrial fenceline monitoring. Presentation given at the *4C Health/Safety/Environmental Conference, Austin, TX, August 19,* by Sonoma Technology, Petaluma, CA. STI-7559.
- Marrero J.E., Schill S.R., Winegar E., and MacDonald C.P. (2021) Facility engagement in community monitoring: building bridges and protecting your future. Presentation given at the *4C Health/Safety/Environmental Conference, Austin, TX, August 19*, by Sonoma Technology, Petaluma, CA. STI-7560.
- Schill S.R., and Hafner H. (2021) PAMS meteorology upper-air and surface measurements. Webinar presented for The Lake Michigan Air Directors Consortium (LADCO) VOC data validation and analysis training, May 26 and June 9, by Sonoma Technology, Inc., Petaluma, CA. STI-921030-7532.

## **Formal Reports**

- Marrero J.E., Schill S.R., and Tai A.Y.-C. (2023) Tesoro Refining & Marketing Company, LLC (A Subsidiary of Marathon Petroleum Corporation) Rule 1180 Fenceline Monitoring Q2 Report: April 2023–June 2023.
   Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, Los Angeles Refinery, Carson, CA, by Sonoma Technology, Petaluma, CA, STI-7961, August 22.
- Scarborough C.R., Schill S., and Moffet R. (2023) Chevron El Segundo Q2 Report: April June 2023. Quarterly report prepared for Chevron Products Company, El Segundo, CA by Sonoma Technology, Petaluma, CA, STI-7975, August 21.
- Marrero J.E., Schill S.R., and King D. (2023) Tesoro Refining & Marketing Company, LLC, Martinez Renewable Fuels Facility Rule 12-15 Fenceline Monitoring Q2 Report: April – June 2023. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, Martinez Renewable Fuels Facility, Marinez, CA by Sonoma Technology, Petaluma, CA, STI-7965, August 18.
- Marrero J.E., Schill S.R., Tai A.Y.-C., and Chaveste M. (2023) Kern Energy Rule 4460 Fenceline Monitoring Q2 Report: April-June 2023. Quarterly report prepared for Kern Energy, Bakersfield, CA by Sonoma Technology, Petaluma, CA, STI-7958, August 11.
- Marrero J., Schill S.R., and Coughlin J. (2023) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) rule 1180 fenceline monitoring Q1 report: January 2023–March 2023. Quarterly report prepared for Tesoro Refining and Marketing Company, LLC, Carson, CA, by Sonoma Technology, Petaluma, CA, STI-7918, May.
- Marrero J.E., Schill S.R., and King D. (2023) Tesoro Refining & Marketing Company, LLC Marathon Renewable Fuels Facility rule 12-15 fenceline monitoring Q1 report: January – March 2023. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, a subsidiary of Marathon Petroleum Corporation, Marathon, CA by Sonoma Technology, Petaluma, CA, STI-923012-7920, May.
- Anderson A.F. and Schill S.R. (2023) Chevron Richmond Q1 Report: January-March 2023. Quarterly report prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-922004-7914, May.

- Marrero J.E., Schill S.R., Tai A.Y.C. and Chaveste M. (2023) Kern Energy Rule 4460 Fenceline Monitoring Q1 Report: January – March 2023. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-923013-7903, May.
- Scarborough C.R. and Schill S.R. (2023) Chevron El Segundo Q1 Report: January-March 2022. Quarterly report prepared for Chevron Products Company, El Segundo, CA by Sonoma Technology, Petaluma, CA, STI-922004-7917, May 25.
- Marrero J.E., Schill S.R., and King D. (2023) Tesoro Refining & Marketing Company, LLC Marathon Renewable Fuels Facility rule 12-15 fenceline monitoring Q4 report: October – December 2022. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, a subsidiary of Marathon Petroleum Corporation, Marathon, CA by Sonoma Technology, Petaluma, CA, STI-923012-7877, February 28.
- Schill S.R. and Gostic C. Phillips 66 Los Angeles Refinery Wilmington Facility rule 1180 fenceline monitoring Q4 report: October 2022 – December 2022. Quarterly report prepared for Phillips 66 Los Angeles Refinery, Wilmington, CA by Sonoma Technology, Petaluma, CA, STI-923015-7870, February 22
- Schill S.R. and Gostic C. (2023) Phillips 66 Los Angeles Refinery Carson Facility rule 1180 fenceline monitoring Q4 report: October 2022 – December 2022. Quarterly report prepared for Phillips 66 Los Angeles Refinery, Carson, CA by Sonoma Technology, Petaluma, CA, STI-923015-7871, February 22.
- Scarborough C.R. and Schill S.R. (2023) Chevron El Segundo Q4 Report: October-December 2022. Quarterly report prepared for Chevron Products Company, El Segundo, CA by Sonoma Technology, Petaluma, CA, STI-922004-7867, February 21.
- Anderson A.F. and Schill S.R. (2023) Chevron Richmond Q4 Report: October-December 2022. Quarterly report prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-922004-7869, February.
- Marrero J.E., Schill S.R., and Chaveste M. (2023) Kern Oil & Refining Co. Rule 4460 Fenceline Monitoring Q4 Report: October – December 2022. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-923013-7853, February 10.
- Marrero J., Schill S.R., and Scarborough C. (2022) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) rule 1180 fenceline monitoring Q2 report: April 2022–June 2022. Quarterly report prepared for Tesoro Refining and Marketing Company, LLC, Carson, CA, by Sonoma Technology, Petaluma, CA, August 29.
- Marrero J.E., Schill S.R., and Gostic C. (2022) Tesoro Refining & Marketing Co., LLC Marathon renewable fuels facility rule 12-15 fenceline monitoring Q3 report: July – September 2022. Quarterly report prepared for Tesoro Refining & Marketing Company, LLC, Martinez, CA by Sonoma Technology, Petaluma, CA, STI-921012-7821, November 30.
- Marrero J.E., Schill S.R., Scarborough C., and Coughlin J. (2022) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) rule 1180 fenceline monitoring Q3 report: July

2022–September 2022. Quarterly report prepared for Tesoro Refining & Marketing Company LLC, Martinez, CA by Sonoma Technology, Petaluma, CA, STI-922018-7817, November 21.

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  Monitoring Q3 Report: July 2022 September 2022. Quarterly report prepared for Phillips 66 Los
  Angeles Refinery, Carson, CA by Sonoma Technology, Petaluma, CA, STI-922015-7809, November.
- Schill S.R. and Gostic C. (2022) Phillips 66 Los Angeles Refinery Wilmington Facility Rule 1180 Fenceline Monitoring Q3 Report: July 2022 - September 2022. Quarterly report prepared for Phillips 66 Los Angeles Refinery, Wilmington, CA by Sonoma Technology, Petaluma, CA, STI-922015-7810, November.
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- Marrero J.E., Schill S.R., and Chaveste M. (2022) Kern Energy Rule 4460 Fenceline Monitoring Q3 Report: July - September 2022. Quarterly report prepared for Kern Energy, Bakersfield, CA by Sonoma Technology, Petaluma, CA, STI-921070-7808, October.
- Scarborough C.R. and Schill S.R. (2022) Chevron Richmond Q2 Report: April-June 2022. Quarterly report Prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-922011-7282, August 26.
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- Marrero J.E., Schill S.R., and Kramer S. (2022) Kern Oil & Refining Co. Rule 4460 Fenceline Monitoring Q2 Report: April – June 2022. Prepared for Kern Oil & Refining Co., Bakersfield, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-921070-7757, June 29.
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- Moffet R.C., Marrero J.E., Schill S.R., and MacDonald C.P. (2022) Air monitoring plan and quality assurance project plan for the Valero Refinery in Benicia, California, 2022 update. Prepared for Valero Benicia Refinery, Benicia, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-922002-6990, June 1.

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- Schill S.R. (2022) Chevron Richmond Q1 Report: January-March 2022. Quarterly report Prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-922011-7726, May.
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- Marrero J.E., Schill S.R., and Roberts P.T. (2022) Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation) Rule 1180 Fenceline Monitoring Q4 Report: October 2021–
  December 2021 Final report prepared for Tesoro Refining & Marketing Company, LLC, a subsidiary of Marathon Petroleum Corporation, Los Angeles Refinery, Carson, CA by Sonoma Technology, Petaluma, CA, STI-921012-7, February 28.
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- Schill S. (2022) Chevron Richmond Q4 Report: October-December 2021. Final report prepared for Chevron Richmond, Richmond, CA by Sonoma Technology, Inc. Petaluma, CA, STI-921005-7677, February 23.
- Schill S. and Hafner H. (2021) Standard operating procedure for the Teledyne Model 640X real-time continuous PM monitor. 921013-7516-SOP.
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- Schill S.R. (2021) Chevron Richmond Q2 report: April-June 2021. Final report prepared for Chevron Richmond, Richmond, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-921005-7590, August.
- Marrero J.E. and Schill S.R. (2021) Rule 12-15 Fenceline Monitoring quarterly reports. Prepared for Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Martinez Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919037-7536, 7593, and 7633, January-March, April-June, and July-September.
- Marrero J.E. and Schill S.R. (2021) Standard operating procedure for high-volume polyurethane foam substrate sampling. Standard Operating Procedure prepared for Imperial County Air Pollution Control District, El Centro, CA by Sonoma Technology, Inc., Petaluma, CA, STI-921031-7543, June.
- Marrero J.E., Schill S.R., and Roberts P.T. (2021) Rule 1180 Fenceline Monitoring quarterly reports. Prepared for Tesoro Los Angeles Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Los Angeles Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919035-7537 and 7594, January-March and April-June.
- Schill S.R. (2021) Chevron Richmond Q1 report: January-March 2021. Final report prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-921005-7533, May 28.
- Schill S.R. and Moffet R.C. (2021) Chevron El Segundo Q1 report: January-March 2021. Final report prepared for Chevron Products Company, El Segundo, CA by Sonoma Technology, Petaluma, CA, STI-921008-7535, May.
- Schill S. and Hafner H. (2021) Feasibility analysis for monitoring in Nogales, Sonora, Mexico. Technical memorandum prepared for the Arizona Department of Environmental Quality, by Sonoma Technology, Inc., STI-921013-7497, January 29.
- Schill S.R. (2021) Chevron Richmond Q4 report: September-December 2020. Final report prepared for Chevron Products Company, Richmond, CA by Sonoma Technology, Petaluma, CA, STI-921005-7511, February 23.
- Schill S.R. and Moffet R.C. (2020-2021) Chevron El Segundo quarterly reports: January-March, April-June, July-September, and October-December 2020. Prepared for Chevron Products Company, El Segundo, CA, by Sonoma Technology, Petaluma, CA, STI-920006-7425, 7435, 7468, and 7505, August 28, September 24, November 27, and February 16.
- Marrero J.E. and Schill S.R. (2020) Rule 12-15 Fenceline Monitoring quarterly reports. Prepared for Tesoro Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Martinez Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919037-7448, 7450, 7476, and 7512, January-March, April-June, July-September, and October-December.
- Marrero J.E., Schill S.R., and Roberts P.T. (2020) Rule 1180 Fenceline Monitoring quarterly reports. Prepared for Tesoro Los Angeles Refining & Marketing Company, LLC (a subsidiary of Marathon

Petroleum Corporation), Los Angeles Refinery by Sonoma Technology, Inc., Petaluma, CA, STI-919035-7436, 7467, and 7509, April-June, July-September, October-December.

- Moffet R., Marrero J., Schill S., and Roberts P. (2020) Fenceline Monitoring plan and Quality Assurance Project Plan for BAAQMD Rule 12-15. Prepared for Chevron Refinery, Richmond, CA, by Sonoma Technology, Inc., Petaluma, CA, STI-919042-7170, October 29.
- Marrero J.E., Schill S.R., and Roberts P.T. (2020) Rule 1180 Fenceline Monitoring Q2 report: April-June 2020. Quarterly report prepared for Tesoro Los Angeles Refining & Marketing Company, LLC (a subsidiary of Marathon Petroleum Corporation), Los Angeles Refinery, by Sonoma Technology, Inc., Petaluma, CA, STI-919035-7436, September 25.