

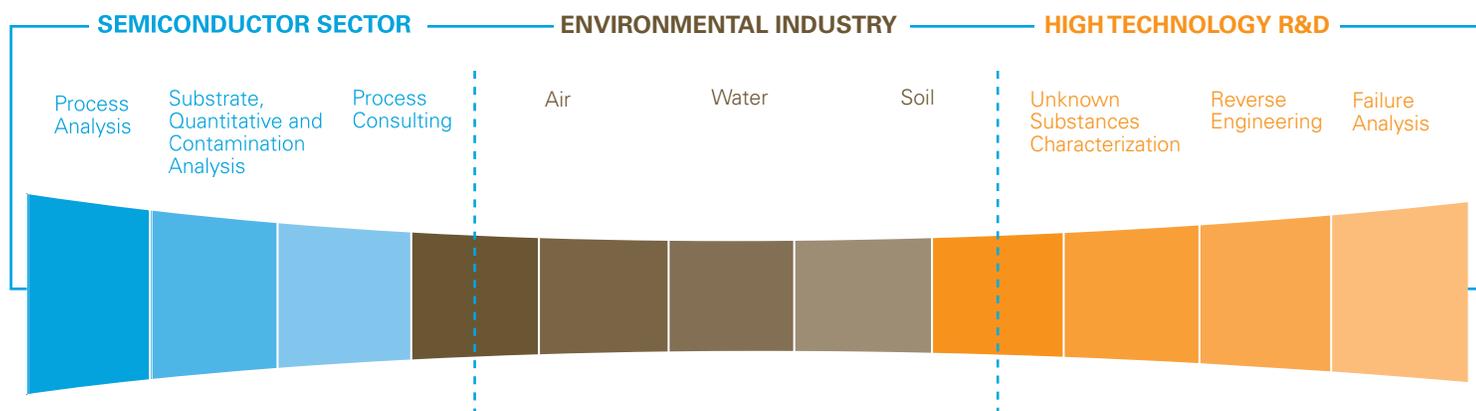


Advancing the State of Analytical Science™

for *air, water* and *soil* analysis

and *beyond*

Full Spectrum of Services



Geographical Coverage: Silicon Valley, Oakland, San Francisco, Sacramento to Bakersfield Corridor

Project Management Services

Knowledgeable. Courteous. Reliable.

Torrent offers a **full spectrum of testing capabilities**, and as our track record shows, we are continuously expanding our portfolio to meet changing regulatory requirements and client requests. Our project management staff is always available to collaborate with you for your unique testing needs. Before any sampling begins, it is important to understand the technical requirements for sampling as well as the measurement science that is required. Our project managers proactively assess your data quality objectives, including reporting limits. Because our clients often have critical time constraints, we respond to all calls within 30 minutes.



A Self-monitoring Program can be established to help Bay Area clients meet Water Pollution Control Plant (WPCP) requirements or to support QC programs for waste water treatment plant or discharge criteria. Complex reporting is performed using the Laboratory Information Management System (LIMS).

Torrent Express™

Rush Turn-around Service

We have achieved over 90% on-time delivery for rush projects, an unprecedented performance record in our industry, and become Northern California's preferred laboratory for fast-track projects. Many labs don't provide rush services at all. At Torrent we have mastered the ability to provide consistent, on-time delivery for a range of clients, whether they might be concluding a real estate deal, paying a premium on rental equipment, or ramping up for a new product launch where every day of delay incurs a heavy cost penalty. In non-peak business periods, our turn-around performance is even higher.

"Torrent is our go-to lab for rush work."

*Sr. Project Manager
Bay Area Consulting Firm*

*Greater San Francisco Bay Area's leading provider
of laboratory analytical services for*

environmental and high technology industries.



Advancing the State of Analytical Science™

Torrent Laboratory provides a full spectrum of certified laboratory analysis services. We are dedicated to helping clients meet regulatory requirements, and protecting the environment in which people live and work.

Founded in 1993, our full-service research laboratory provides **significant advantages beyond "cookbook chemistry" found in traditional labs.**

- Expertise ranging from process and substrate analysis to reverse engineering, failure analysis, and unknown substances characterization
- Analytical capabilities for Volatile and Semi-volatile Organics, and Inorganics
- California Environmental Laboratory Accreditation Program (ELAP) certification
- Superior Air Analysis services
- Torrent Express™ rush turn-around service

Along with California regulatory agencies, Torrent serves local municipalities, environmental organizations, and private industries including semiconductor manufacturing, high technology, alternative energy development, biotech and pharmaceuticals.

For every project, we focus on understanding customer requirements and the technical challenges inherent in sampling, testing and analysis. Torrent is dedicated to advancing analytical science while increasing process efficiency and ensuring consistent quality of service. Torrent's growing community of **loyal customers** reflects our established record of delivering defensible results with efficient, appropriate methods and high quality data.

Our analysts are degreed chemists with **proven experience** in our industry. To keep pace with technology evolution, we have invested in advanced, high performance analytical instruments, from GC and MS systems to inductively coupled plasma ICP and ion chromatography equipment.

Vapor Analysis

Air Analysis is rapidly evolving, and pathways for toxic exposures such as Vapor Intrusion (VI) present serious environmental challenges, particularly since the inhalation route of exposure has been found to yield higher toxicities in humans than either ingested or dermal exposures. National reporting agencies indicate that there are hundreds of thousands of VI contaminated sites across the U.S. For this reason, Torrent's Air Analysis Group has made a significant investment in new methods and **new equipment technologies for air analysis.**

Our chemists leverage established methodologies and create advanced analysis procedures including support for high and low level sub-ppbv reporting limits. Torrent offers unlimited technical support and a regular program for knowledge transfer, including techniques for proper air sampling.



Torrent Performs the Following Analytical Services

Vapor Intrusion Indoor Air	▶ Method, TO-14, TO-15
Soil Gas Monitoring	▶ Method, TO-14, TO-15 EPA 25.1 (Non-methane organics) ASTM-D 1946 (Fixed Gases)
Remediation Efficiency/ Site Characterization	▶ ASTM-D 1946 (Fixed Gases) RSK-175, TO-14, TO-15
Industrial Hygiene	▶ TO-14, TO-15, ASTM-D 1946

Torrent facilitates the sampling process for its customers by providing canisters, regulators and manifolds as part of the analysis service. Each Summa canister arrives at the customer site ready for sampling. Canisters are automatically equipped with a pressure gauge if needed. Manifolds are custom-built for each project, delivered clean and calibrated for sample collection over a pre-specified timeframe.

Torrent can analyze both Summa canisters and Tedlar bags, and achieve the same ppbv levels of detection for almost all compounds. Our Air Analysis Group can also provide 6L Summa canisters with accompanying gauges. All our canisters are cleaned in-house and all canisters, either by batch or individually, can be provided as "certified" clean below the reporting limit for the specific sampling.

Canisters: Torrent leads the industry by providing sampling equipment with lab services. Each canister is equipped with a built-in pressure gauge to facilitate and take the guesswork out of sampling. **There are no rental, shipping or receiving fees.**

Regulators: Always provided at no extra charge with lab services.

Manifolds: Custom-built to project specification, provided at no extra charge with lab services.

"Before we found Torrent, our air analysis projects suffered due to delayed canister deliveries and the added time and expense involved with shipping them back to our previous lab. Torrent handles all our sampling equipment needs as part of their service."

*Sr. Project Manager
East Bay Consulting Firm*

Volatile Capabilities

Air, water and soil analysis for volatile organic compounds (VOCs), performing all VOC analysis with the latest generation of GC/MS systems.

- Air Analysis —> Canister and Tedlar bag
- TO-14
- TO-15
- TPH gas range organics
- Hydrocarbon
- Fixed Gases —> Oxygen, Nitrogen, Hydrogen, CO₂, CO, Ethane, Ethene, Methane
- RSK-175
- Non-Methane Organics
- EPA 8260 Water and Soil
- EPA 8021B
- EPA 8015 —> TPH Purgeables
- Special methods development



“Torrent has provided us with accurate and timely results on every project; that is why they are the first laboratory we call.”

*Sr. Project Manager
South Bay Consulting Firm*

Semi-Volatile Capabilities

Our laboratory is equipped with the most highly automated extraction methodologies available.

- EPA 8270C
- PAH (PNAs)- also by SIM
- **GPC Clean-up**
- Pesticides
- PCBs
- **Florisil Clean-up**
- Diesel/Motor Oil and other fuels
- Hydrocarbon Fingerprinting
- **Silica Gel Clean-up**
- Custom method development



Inorganics Capabilities

The Bay Area's most complete lab services for the complex testing and analysis that is characteristic of Inorganics samples. The following is a partial list of services.

- Metals by simultaneous ICP
- Perchlorates
- Hexavalent Chromium
- Total Organic Carbon (TOC - Soil and Water)
- Cyanide
- Oil and Grease
- Wet Chemistry
- Metals by ICP/MS (coming in 2007)
- Anions/Cations

A full spectrum of
laboratory analysis services

from a name you can trust.



Laboratory Certifications

Environmental Laboratory Accreditation Program (ELAP)
City and County of San Francisco - LBE/MBE
California Public Utilities Commission (PUC) - MBE
City of Oakland - LBE
Regional Transportation - Caltrans, BART, VTA, etc.
State of California - SBE

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Bay Area Locations

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