



# WHO WE ARE

Yellow Tree is a team of engineers and scientists specialising in stack emissions sampling and air quality consulting. We are passionate about the environment, accurate emissions results and excellent service. When we conduct stack sampling, we take time to understand our clients' processes. After completing the testing we write a report and deliver a presentation, to help our clients understand their results in the context of the South African Air Quality legislation and to help clients implement solutions to reduce their air pollution.



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# EMISSIONS SAMPLING SERVICES

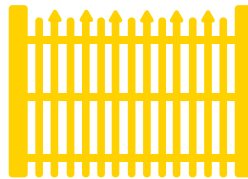
Yellow Tree's core business is the accurate sampling of combustion and process stacks. While most of our emissions sampling work is performed for annual compliance purposes, we have also completed many scientific studies that go beyond mere compliance. For example, we have assessed the efficiency of various forms of pollution abatement equipment, compared the emissions from different biofuels, and assessed the influence of plant operation on emissions.

Combustion stacks typically need to be sampled for only Particulate Matter, Sulphur Dioxide (SO<sub>2</sub>), and Oxides of Nitrogen (NO<sub>x</sub>) but process stacks require a wide variety of pollutants to be sampled. Yellow Tree can sample for all of the pollutants required by the South African legislation – including Dioxins/Furans (PCDDs and PCDFs) and Polycyclic Aromatic Hydrocarbons (PAHs). Few stack sampling companies can sample such a diverse range of pollutants. We have developed a relationship with a world-class European laboratory to make this possible.



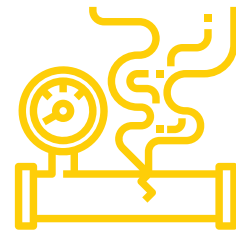
## STACK EMISSIONS SAMPLING

Stack emissions sampling is a legal requirement for many industries in South Africa according to the Listed Activities and Controlled Emitters legislation.



## FENCELINE MONITORING

The National Ambient Air Quality Standards (NAAQS) identify certain pollutants, such as Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) that pose a threat to human health.



## LEAK DETECTION & REPAIR (LDAR)

Section 21 of the National Environmental Management: Air Quality Act (NEMAQA) requires the petro-chemical industry, amongst others, to develop LDAR programmes and then to conduct subsequent LDAR monitoring.



# CONSULTING SERVICES

To complement our emissions sampling work, we offer a range of consulting services:



**ATMOSPHERIC EMISSIONS LICENSES (AELs)**



**AEL ANNUAL REPORTING**



**AIR DISPERSION MODELLING**



**NAEIS REPORTING**



**ATMOSPHERIC IMPACT REPORTS (AIRS) & SPECIALIST AIR QUALITY IMPACT ASSESSMENTS**



**GREENHOUSE GAS (GHG) REPORTING**



**CARBON TAX, CARBON BUDGETS**



**CARBON FOOTPRINTING, CARBON CREDITS**



**ABATEMENT EQUIPMENT GUIDANCE**





# HOW CAN WE HELP?

## Peace of Mind

Our team consists of Chemical Engineers and Scientists, and we have extensive combustion, air pollution and process engineering experience. We will provide accurate emissions results that you can trust. Considering the risk of fines, imprisonment, and reputational damage; we provide you with Peace of Mind.

## The Bridge Between You & the Law

We know the legislation well. We will sit with you and share how the legislation applies to your site. We can assist you with your AEL, NAIES, Annual Reporting, GHG reporting and Carbon Tax. We can also help build a relationship of trust with your Air Quality Officer (AQO) as we have worked with many of the AQOs in SA.

## Engineering Advice

Our service does not end when we hand over the report. We will meet with you to discuss ways to reduce emissions and to obtain compliance. We can also conduct upstream and downstream measurements to determine the abating efficiency.

## Short Lead Times & Simple Reports

With our multiple sampling teams and short lead times, we can conduct sampling at all of your sites nationwide and provide consolidated feedback to head office. Our reports are comprehensive and simple to understand, even for non-technical people.

# CONTACT US



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