1-855-668-3131

EDMONTON, ALBERTA
(Head Office)
6948 Roper Road
Edmonton, Alberta
T6B 3H9

Phone: 780.468.3131
Fax: 780.468.3224

CALGARY, ALBERTA
Box 152, 1500 - 14 St. SW
Calgary, Alberta
T3C 1C9

Phone: 403.229.3131
Fax: 403.245.3224

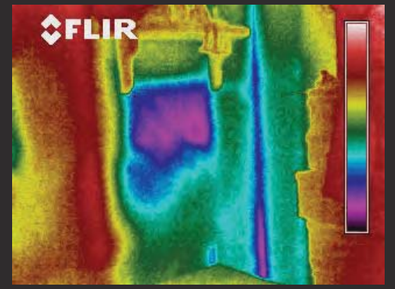
GRANDE PRAIRIE
10409 99 Avenue
Grande Prairie, Alberta
T8B 0Z4

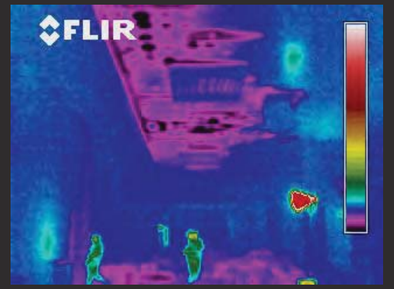
Phone: 780.567.3130

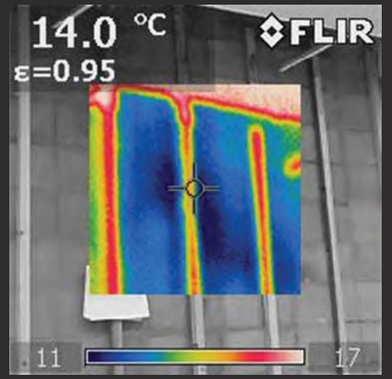
RED DEER
Suite 370
B102 - 5212 48th street
Red deer, Alberta
T4N 7C3

Phone: 403.358.3184

DF TECHNICAL & CONSULTING SERVICES LTD.







INFRARED THERMAL IMAGING

Moisture penetrations into building materials are major precipitators to mould growth and in most cases cannot be seen immediately by the naked eye. The use of state of the art Infrared Thermal Imaging Technology for the use on the building envelope issues and suspected interior water loss problems are now remedied by the use of such equipment. Our Industry certified Infrared Thermographers can assist in the location of suspected water loss sources, water intrusions, heat loss and overall building envelope integrity.

DF Technical & Consulting Services Ltd. will evaluate the building for moisture sources including building envelop failures, leakage issues or occupant based moisture sources that may be the source or contributing to mould development within the building.

Infrared Thermography Inspections include:

Thermal Heat Signatures for indications of infrared temperature differences in building materials that may relate to moisture intrusion or heat loss/ gain.

Non-destructive testing of building materials for identification of potential moisture intrusions, confirmed with moisture scanning/ probing equipment for verification.

Reportable findings in a concise written inspection report.

INDUSTRIAL HYGIENE/OCCUPATIONAL MONITORING

The science behind Industrial or Occupational Monitoring involves the understanding of the contaminants that have the potential to harm the human body and that are generated in the workplace as part of an overall process.

These processes may include:

Process related-welding, gouging, grinding/cutting, painting, sand or abrasive blasting, electroplating, noise exposure, compressed breathing air, confined space monitoring.

Function related–exposure to exhaust gases introduced into the workplace from exhaust systems, folk lift activity and other vehicle activity.

Not only are our consultants able to answer the direct questions pertaining to exposure but also indirect considerations or secondary sources created during the processes. By understanding the process and spin-off effects, sampling strategies can be developed more cost effectively and directed to answer the necessary questions.

DF Technical & Consulting Services Ltd. will also evaluate the facility, the collected data and all pertinent information to aid in solutions to problems where they may exist.

INDOOR AIR QUALITY CONSULTING SERVICES

DF Technical & Consulting Services Ltd. provides a client based comprehensive approach to Indoor Air Quality matters. Indoor Air Quality (IAQ) is a very broad topic and in-experience can result in a flawed survey resulting in wasted time and resources. DF Technical & Consulting Services Ltd. employs trained individuals with an understanding of the Indoor Environment, thus maximizing the inspection process targeting areas of concern and answering the questions for all interested parties.

Air Quality may include some or all of the following parameters:

- MOULD & BACTERIA
- VOLATILE ORGANIC COMPOUNDS
- DUST PARTICLE COUNTING
- AIR MOVEMENT PROFILES
- CARBON MONOXIDE
- CARBON DIOXIDE
- TEMPERATURE/RELATIVE HUMIDITY
- NITROGEN DIOXIDE
- CONTAMINANT MIGRATION FROM ADJOINING SOURCES
- OZONE

THE PROCESS:

Perform a site walk through inspection to evaluate conditions within the facility or building to determine the sampling strategy necessary to answer the IAQ questions and determine sources of contaminants.

Develop the sampling and investigation program, selecting analysis locations to answer the IAQ questions and determine sources of contaminants.

Review procedures within the facility that may contribute to IAQ issues and related matters, including maintenance procedures, cleaning products, occupant activities and activities in adjacent spaces, space layout and configuration contributing factors.

Evaluate all collected data and compare to results to client comments of issues as well as site observations during inspection period.

Prepare a report of findings outlining contaminants and issues noted during inspection. Assist in developing corrective measures to reduce or eliminate IAQ concerns. Review findings with client to ensure understanding of findings.

AIR QUALITY SAMPLING FOR COMPRESSED BREATHING AIR & SYSTEMS

Supplied breathing air systems are a necessary requirement for most automotive collision centres, sandblasting and coatings applicators. Supplied breathing air systems are described as an atmospheric-supplying device which provides the wearer with respirable air from a source outside the contaminated area; only those with manual or motor-operated blowers are approved for immediately harmful or oxygen-deficient atmospheres.

All supplied breathing air samples are submitted to a local, "Standards Council of Canada" Accredited Laboratory for analysis. Breathing Air Analysis results are then provided by DF Technical & Consulting Services Ltd. in a concise report that indicates the sample's conformance or non-conformance to the requirements of the standard.

DF Technical & Consulting Services Ltd. has over 13 years of experience in providing onsite compressed breathing air sampling assessments in Alberta. We provide our clients with professionally trained & certified air quality consultants to perform independent sampling for industrial and commercial users of supplied breathing air systems. All of which, is with the intent to ensure purity and safety for the painting, coating applicator & sandblasting worker found in your workplaces.

DF Technical & Consulting Services Ltd. can provide you with a 3rd party, competently trained, unbiased, collection and assessment consultant, for your supplied breathing air system in your workplace.

As it is required by the Alberta Occupational Health & Safety (OH&S) Act, Regulation and Code (2009) Part 18;Personal Protective Equipment, Section 249;Quality of Breathing Air, the analysis of Compressed Breathing Air is to meet the requirements of Table 1 of the CSA Standard CAN3-Z180.1-00. It is also noted in Section 15.2.2 of CAN3-Z180.1-00, which a sample of compressed breathing air produced and delivered by a compressed breathing air system shall be collected and analyzed at least once every 6 months.

Table 1 CSA CAN3 Z180.1-00 Maximum Parameters

Compounds Present	Maximum Allowable
Oxygen	20% - 22%
Nitrogen & Rare Gases	78% - 80%
Carbon Monoxide (2.5 PPM in AB)	5 PPM
Carbon Dioxide	500 PPM
Methane	10 PPM
Volatile Non Methane Hydrocarbons	5 PPM
Volatile Halogenated Hydrocarbons	5 PPM
Odours	Free of pro-nounced odour
Oil, Particulates & Condensates	1 mg/m3
Atmospheric Dew Point	*

*Compressed breathing air at pressures less than 2216 psig shall have an atmospheric pressure dew point at least 5 oC below the lowest temperature to which any part of the compressed breathing air pipeline, or the accepted regulator, may be exposed during any season of the year.

Ambient Air Systems are also obligated to meet the requirements of CAN3-Z180.1-00. With the exception of the Atmospheric Dew Point

MOISTURE MONITORING AND MOULD ASSESSMENTS

Mould Remediation is the process of removing contaminated materials while controlling exposure of the worker and cross contamination of other areas of the building or structure. Mould is a symptom of moisture issues. Mould concerns are a result of moisture intrusion affecting the structure, either through leakage, condensation or occupant activity. To ensure the long term effectiveness of a Remediation project an understanding of moisture source(s) is an integral portion of the mould assessment for reduction of redundancies in procedures.

DF Technical & Consulting Services Ltd. evaluates moisture sources including building enclosure failures, mechanical leakage issues or occupant activity that may be the source or contributing to mould development concern.

Mould Assessments involve:

Occupant interview, visual inspection and building assessment to determine the best possible methodology of analytical sampling to create a site specific remediation plan to reduce source and health impact potential from spore exposure.

ASBESTOS CONTAINING MATERIALS (ACM)

Asbestos is a naturally occuring fiber used in numerous applications within buildings for fire rating of materials, insulation properties and product durability. However, health concerns related to fiber exposure have deemed Asbestos as a risk factor within buildings containing these materials. DF Technical & Consulting Services Ltd. will provide inspection and consulting services necessary to answer the questions about Asbestos within your facility or building.

Asbestos Survey's - in order to manage the risk you must understand if and where Asbestos containing materials exist in your building. Bulk material assessments can be conducted to determine potential Asbestos content.

Management Planning - if Asbestos exists within a building, the overall condition of the material should be understood. Management planning aids in maintaining an inventory of ACM's and outlines procedures all individuals must adhere to when performing tasks in and around known ACM's.

Abatement Procedures (removal of ACM within the building) - DF Technical & Consulting Services Ltd. will work with the clients to develop appropriate abatement procedures to reduce the risk to occupants, contractors and the building assets during removal activities, including visual inspections and air monitoring in areas of concern and surrounding areas.

Develop and Implement Asbestos Awareness Programs in generic or site specific manners.

DF Technical & Consulting Services Ltd. has been certified to offer the **Occupational Health and Safety Course for the Asbestos Worker**. Gaining the knowledge with a hands on practicum and a two day in house comprehensive overview of the Alberta Legislation for the safe removal and handling all three levels (Low-Risk, Moderate-Risk, High-Risk) of Asbestos.