

AGAT Laboratories 

Spill Response Planning

Overview

For all types of emergency spills and environmental contamination, AGAT Laboratories is your first contact for your fast response plan and legally defensible data.

In emergencies, AGAT Laboratories is ready to mobilize 24/7 with our highly qualified technical staff and on-site mobile laboratory capabilities. We offer a complete Emergency Response Plan program that can be customized to your requirements. Our national network of laboratories are set up to receive and process emergency samples alongside consistent and detailed communication to help you manage any spill situation quickly and effectively.

Our laboratories have in house procedures and action plans for all types of environmental contamination and disasters including:

- Fuel
- Oils
- Petroleum products
- Sludges
- Hazardous chemicals
- Paints
- Acids and alkalis
- PCBs and PAHs

Laboratory Contingency Plan

Our internal Emergency Response Plan protocols include the following key features for optimization of our resources to provide priority samples with rush turnaround times:

- As a nation-wide network of full-service laboratories, we have the capability to transfer non-emergency non-spill related samples from one lab to another to ensure that we continue to meet the needs of the spill project and all of our other clients.
- Our laboratories' operational hours can be extended to 24 hours, 7 days a week for large sampling programs that require around the clock analysis.
- Optional Emergency Service Centres can also be developed quickly for large spills or environmental disasters that will require long term monitoring.





Soil and Water Mobile Laboratory On-site Services

AGAT Laboratories' mobile laboratories offer customized on-site expedited analysis. In emergency contamination situations, the ability to run data on-site allows for fast accurate decisions to be made, which assists in a quick recovery.

Our mobile labs can be customized to the requirements of the contamination and deployed as quick as possible depending on the scope of customization and location of the site.

All mobile laboratories follow our strict Quality Control protocols and procedures for approved methods that meet ISO 17025 standards.

On-board Capabilities and Reporting

- GC/FID instrumentation for Extractable range for Petroleum Hydrocarbons (F2 - F4).
- Headspace GC/MS/FID or GC/PID/FID for Purgeable Range Petroleum Hydrocarbons and VOCs (BTEX /F1).
- Instrumentation is equipped with state-of-the-art autosamplers for 24/7 analysis.
- During extended periods of inactivity, the mobile unit will be kept in a state of readiness through ongoing instrument checks and calibrations that will be performed on a monthly basis.

- On-site, instantaneous reporting of Quality Assurance data. Data is also transmitted to our Laboratory Information Management System (LIMS) for subsequent complete Certificates of Analysis.
- The mobile laboratory meets all provincial and national regulation detection limits.

Additional Mobile Laboratory Features

- Fridges and freezers on-board for sample preservation.
- High-tech generator for continuous self-power.
- On-board sampling kits and customized chain of custodies to minimize mobilization time.

VOC Emergencies: Summa Canisters

AGAT Laboratories has one of the largest supplies of Silonite Canisters in Canada. During an emergency response, a supply of ready to sample canisters will be shipped directly out to the field for on-site sampling.

■ info@agatlabs.com



Air Quality Monitoring Analysis

Continuous Air Monitoring Stations

AGAT Laboratories offers fully equipped Ambient Air Quality Monitoring Stations on a rent, lease or purchase basis with the following features:

- Varied chemical monitoring configurations.
- PC-based data acquisition and control systems with enhanced remote access capabilities.
- Custom-designed HVAC controlled instrument shelter.
- Monthly calibration, servicing, data validation and reporting services.
- **WebAIR** online enhanced reporting and notification software.

Capabilities

- SO₂
- O₃
- PM10
- H₂S
- CO
- PM2.5
- TRS
- CO₂
- Fine particulates
- NO_x
- TSP
- Complex volatile organics
- NO₂
- THC
- Meteorological indicators
- NH₃
- NMHC



Integrative Monitoring

AGAT Laboratories offers a number of different integrated sampling programs based on drawing air through filters and absorbents. We use specialized sampling techniques as per EPA TO methods that can be supplied for multiple components including:

Sampler	Capabilities
Filters	High Volume Sampling for TSP and PM10
PUF Tubes	High Volume Sampling for PCBs and PAHs
Sep-Pak Cartridges and Gastec Tubes	Formaldehyde & Phenol
SILONITE Canisters and Tedlar Bags	VOCs

Passive Monitoring

For longer term cost-effective passive air monitoring, AGAT Laboratories offers specialized Passive Air Quality Samplers (PAQS) which compose of chemically treated filters that absorb target compounds over time. After filters are exposed to the environment, they are analyzed in our Clean Air Laboratory to measure pollution concentrations collected for the duration of exposure.

Capabilities

- Sulphur Dioxide (SO₂)
- Ozone (O₃)
- Hydrogen Sulphide (H₂S)
- Volatile Organic Compounds (VOC's)
- Nitrogen Dioxide (NO₂)

As part of our Laboratory Partnership Program we are dedicated to pre-organizing seamless communication and customized protocols between our personnel and your operations. Emergency hotlines and a company e-notification email address will be set up for your organization with highly trained response teams ready for action.

Laboratory Communication Action Plan

Contact us today to plan your customize Laboratory Emergency Response Plan. For more information please contact your local Business Development Representative or Client Project Manager.

0 hours: Spill or Environmental Disaster

0 -1 hours: Initial Contact and E-notification of Emergency Response Plan Activated



- AGAT 24 hour Emergency Contact is notified of spill.
- E-notification and confirmation that the Emergency Response Plan has been activated is sent to all AGAT and the company's personnel outlines the next step.



2 - 4 hours: Laboratory Notification

- All associated laboratories are contacted and made available.
- 24 hour service option, 24 hour Technical Support and additional overtime staff are made available.



8 - 12 hours

- AGAT Laboratories' Senior Management and Spill Response Team meet with the company's personnel for a kick-off meeting to identify contaminant types, scopes of analysis, parameters to be tested and mobile laboratory requirements.



Within 12 hours: Shipping and Sampling Supplies

- Shipping schedule set-up and sample supplies including summa Canisters sent to spill site from closest branch location. Dedicated Emergency Response instrumentation and laboratory equipment readied.



Within 24 hours: Reporting and Updates

- Both written and verbal updates are provided twice a day (based on volume and scope of spill).
- Data delivery, report customization and invoicing specifications commence.



Next Steps: Mobile Laboratory deployment to spill location (if required)

- 24 hour on-going analysis.

Deployment of on-call Air Quality Monitoring Trailers (if required)

- 24 hour on-going analysis.



Be confident in your Risk Management planning: design your custom Emergency Response Plan with AGAT Laboratories and know you will be ready to make fast decisions in the time of an environmental contamination.