

Thousands of successful
environmental projects
and three decades
of serving the
pipeline industry



SPILL RESPONSE SERVICES FOR THE PIPELINE INDUSTRY

LBG's SPILL RESPONSE SERVICES FOR THE PIPELINE INDUSTRY

- Initial Characterization
- "Eyes and Ears" in the Field
- Initial Risk Evaluation
- Immediate Remedial Response
- Coordinate Subcontractors
- Waste Disposal Management
- Regulatory Communication

Leggette, Brashears & Graham, Inc. (LBG) understands that release response requires urgent action by multi-disciplinary teams made up of consultants, contractors and company personnel. We understand that termination of the release, getting the pipeline back in service, and containment/recovery of product to minimize risk associated with fire, and protection of human health and the environment are of the utmost importance. Because we have responded to numerous pipeline releases over the last three decades, we have developed an understanding of how to optimally serve our clients during these unfortunate events.

Additionally, concerns of pipeline and environmental regulators as well as other stakeholders and sometimes the media may need to be addressed. LBG has an outstanding performance record working with a company's incident command team. We are there to distinguish and balance competing priorities as well as provide the command team with real-time data and interpretation so that informed decisions can be made regarding initial subsurface mitigation activities.

During a pipeline spill response, it is LBG's goal to team with the company's environmental staff and command team to collect data critical for assessing the dynamics of subsurface hydrocarbon migration and identifying response activities that can:

- Prevent impact to a human or sensitive environmental receptor
- Significantly reduce the extent of impacts
- Significantly reduce the duration/costs of future remedial actions



LBG'S SPILL RESPONSE SERVICES FOR THE PIPELINE INDUSTRY

Initial Characterization

- Collect geologic and hydrogeologic data to identify potential flow paths
- Monitor product migration dynamics
- Predict plume migration rates and extent
- Identify initial mitigation activities
- Discuss with environmental staff and incident command team

"Eyes and Ears" in the Field

- Document initial response activities
- Act on behalf of the Environmental Manager in his/her absence
- Gain institutional knowledge of release response activities that will reduce follow-up investigation and remediation requirements
- Identify stakeholder concerns
- Understand data QA/QC in regards to potential need for litigation support

Initial Risk Evaluation

- Identify potential human and sensitive environment receptors
- Monitor risk response teams
- Identify potential property devaluation issues

Immediate Remedial Response

- Design and implement initial remedial actions
 - product recovery pits
 - soil excavation
 - vac truck
 - trailer mounted product recovery and soil remediation equipment

Coordinate Subcontractors

- Coordinate and manage subcontractors
- Direct excavation activities
- Field screen analysis of soils for VOC concentration
- Segregate impacted soils from non-impacted soils

Waste Disposal Management

- Waste characterization sampling
- Coordinate disposal of impacted soil, or where applicable, obtain permits for landfarming
- Arrange for disposal or treatment of impacted water

Regulatory Communication

- Collect data needed to present to regulatory agency representatives to define actual risks and eliminate unwarranted perceived risks



Leggette, Brashears & Graham, Inc.

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