

LEGGETTE, BRASHEARS & GRAHAM, INC.

Professional Groundwater & Environmental Engineering Services

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



CONSTRUCTION MANAGEMENT SERVICES FOR THE PIPELINE INDUSTRY

LBG's CONSTRUCTION MANAGEMENT SERVICES FOR THE PIPELINE INDUSTRY

- Pre-Construction
Characterization of
Contaminated Soil
- Bid Process Management
- Project Management
- Subcontractor
Management
- Permitting
- Contract Administration
- Value Engineering
- Constructability Review
- Construction Meetings
and Oversight
- Change Management
Process
- Contaminated Soil and
Water Disposal

Leggette, Brashears & Graham, Inc. (LBG) offers Construction Management services to meet the construction needs of our pipeline clients. LBG has relevant and applicable industry experience conducting major construction projects on pipeline facilities. LBG can manage your project to any degree – from managing specific aspects of a large project or phase to being your single point of contact for the entire project. LBG acts as an agent for the pipeline company, being responsible exclusively to the company, and acting in the company's best interest at every stage of the project. We endeavor to offer construction management skill and advice uncolored by any conflicting interest, on matters such as:

- Project scheduling/avoidance of delays
- Cost management
- Bidding process management/contract administration
- Procurement and subcontractor management
- Avoidance and/or management changes and disputes
- Construction quality
- Safety management

In addition, LBG provides Value Engineering services to reduce costs and enhance project design while maintaining functionality.

Our clients prefer to use LBG because we know how to implement construction activities in a pipeline environment. We understand how system integrity plans impact construction activities. We are familiar with pipeline facility operations. We understand how to manage the issues associated with encountering contaminated soil and groundwater. Let LBG use its decades of experience to assist you with your pipeline-related construction project.

A Tradition of Excellence Since 1944



LBG'S CONSTRUCTION MANAGEMENT SERVICES FOR THE PIPELINE INDUSTRY

Pre-Construction Characterization of Contaminated Soil and Groundwater

- Collection of soil and groundwater samples for characterization
- Screening evaluation of data to assess impact on health and safety

Bid Process Management

- Prepare and Transmit Bid Documents
- Pre-Bid Meetings and Site Walkover
- Bid Evaluation

Project Management

- Liaison between corporate engineering group, contractors, and field staff
- Job Plan Preparation
- Project Schedule/Timeline
- Budget Tracking/Reconciliation

Subcontractor Management

- Contractor Verification ISNetworld/OQ/OSHA
- Coordinate/Manage/Schedule Contractors
- Bundle Small Subcontractors with Minimal Markup

Permitting

- Cultural, Jurisdictional Waters, Endangered Species Clearances
- Storm Water Pollution Prevention Plans
- Local County and City Permits (i.e. Building, Excavation and Fill, Dumpster, ROW, Hauling)
- Internal Site-Specific Permits (i.e., Hot Work, Confined Space, Lock Out/Tag Out)

Contract Administration

- Familiarity with CSI, EJCDC, AIA Documents
- Specification Preparation

Value Engineering

- Evaluate design for alternative approaches
- Estimate cost savings

Constructability Review

- Improve the clarity of the drawings and bid documents
- Determine appropriateness of construction materials and construction techniques
- Identify site issues, utilities, etc. that may affect construction
- Identify the impacts construction will have on facility operation and propose changes if necessary

Construction Meetings and Oversight

- Kickoff Meetings
- Health and Safety Daily "Tailgate Meetings"
- Daily Logs/Photo Documentation
- Record Drawings/As-builts

Change Management Process Administration

- Process Hazard Analysis
- Change Management Document and Submittal
- Pre-Startup Safety Review

Management and Disposal of Construction-Derived Contaminated Soil and Groundwater

- Estimate volume of contaminated soil to be removed by construction activities
- Assist construction crews with segregating contaminated soil
- Assist with treatment/disposal of contaminated soil and water removed by construction activities



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