



# GEOTECH ENGINEERING AND TESTING

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## STATEMENT OF QUALIFICATIONS FOR PETROCHEMICAL AND INDUSTRIAL PROJECTS



## SERVICING

TEXAS, LOUISIANA, NEW MEXICO, OKLAHOMA

[www.geotecheng.com](http://www.geotecheng.com)

2020

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# GEOTECH ENGINEERING AND TESTING COMPANY PROFILE

## INTRODUCTION

The purpose of this document is to provide our client a complete package of our capabilities for petrochemical and industrial projects. The information in this document can be used to put Geotech Engineering and Testing on your team to provide engineering services. **We provide our services in Texas, Louisiana, New Mexico and Oklahoma.**



Geotech Engineering and Testing (GET) is a Texas owned, multi-disciplined organization of licensed engineers, geologists, field and laboratory technicians, and clerical personnel combine their technical capabilities, past experience, dedication, and enthusiasm to offer the finest services available. The firm offers a wide range of services for petrochemical, industrial, nuclear, marine terminals, pipeline, public works, transportation and port facilities.



GET has a staff of about sixty (60) engineers, technicians, and support staff. The firm, which was established in 1985, provides the following services:

- o **Geotechnical Engineering**, including soil borings, laboratory testing, engineering analyses and recommendations regarding industrial and petrochemical facilities, foundations, pavements, slope stability, retaining walls, ground improvement, dynamic loading, construction considerations, etc.
- o **Construction Materials Engineering**, including earthwork, asphalt, steel, and concrete testing during construction.
- o **Environmental Engineering**, including site assessments, monitor well installations, fault studies, and underground storage tank contamination studies.
- o **Forensic Engineering**, developing causations and remedial measures for distress in plants, industrial sites, buildings, foundations, retaining walls, slopes, pavements and parking lots.

GET employees provide services on a vast number of diverse projects and clientele ranging from small petrochemical/industrial firms to large oil companies and contractors. The primary purposes of the firm are to promptly, accurately and comprehensively provide geotechnical reports, environmental studies and materials observations through our reasonably budgeted engineering services.



GET encourages a continued involvement in projects starting with the initial environmental site assessment/geotechnical studies and following through into the design, construction or remediation phase. This ongoing association enhances project continuity and stability of the project team players.

## PROJECT TYPES

Geotech Engineering and Testing and its staff members have been involved in geotechnical, environmental, materials and forensic engineering services for Industrial Sites, Petrochemical Complexes, Towers, Marine Terminals, Sea Walls, Electrical Substations, Power Plants, Tank Farms, Flare Stacks, Machine Foundations, Bulkheads, Pipelines, Erosion Protection Systems, Nuclear Facilities, etc.



## GEOTECHNICAL ENGINEERING SERVICES

### General

Geotech Engineering and Testing and its staff members have many years of experience in conducting engineering services for more than 20,000 projects. The firm conducts over 1,200 projects a year. We can provide our services anywhere in Texas, Louisiana, Oklahoma, and New Mexico.

### Field Equipment

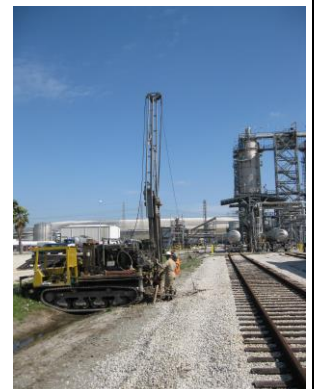
GET is one of only a few firms in Houston that has its own drill rigs. GET is equipped with seven drilling rigs, including a Simco and Failing Drilling Rigs, to perform wet rotary or hollow-stem borings. We also have three Lone Star, three portable rigs and two limited access buggy rigs. We can conduct drilling and sampling with our rigs up to 120-feet. In addition, together with our subcontractor drillers, we can drill to much deeper depths, install monitor wells, piezometers, and inclinometers. Our field crews have many years of experience in various subsoil and groundwater conditions. Our commitment to the client is to provide dependable service, the best and most up-to-date equipment, and reliable drilling personnel. GET has the capability and experience in surveying and staking the boring locations and providing clearance from underground utilities. In areas that are heavily wooded, we can arrange for clearing of the project site. We are one of the few firms in Houston with our own drilling rigs. The portable rigs are very useful on wooded or sites with soft subgrade conditions. These small rigs can go places where the larger rig cannot get to. Therefore, saving the client time and money.



GET is one of the few firms in Texas which is equipped with miniature rigs. These small, portable rigs access laborious places, such as tight sites within a plant, sites that are wooded or contain wet subgrade soil conditions, without significant clearing. In addition, these rigs can be operated inside buildings and in confined areas. **Our crews are OSHA trained and have safety certifications.**

### Geotechnical Laboratory

Geotech Engineering and Testing's laboratory has the capabilities to produce geotechnical testing under controlled conditions to evaluate standardized tests of materials, and tests of new materials used in research and development.



Our tests will be conducted in general accordance with ASTM standards. Some of the geotechnical laboratory testing capabilities are as follows:

- o **Moisture content**
- o **Atterberg Limits**
- o **Gradation tests**
- o **Consolidation tests**
- o **Swell tests**
- o **Density tests**
- o **Organic Contents**
- o **Compaction**
- o **Soil suction**
- o **pH Tests**
- o **Permeability tests**
- o **Pinhole test**
- o **Torvane**
- o **Resistivity tests**
- o **Proctor tests**
- o **Hydrometer tests**
- o **Shear Strength**
- o **Soil Classification**
- o **Specific Gravity**
- o **Other specialized tests**
- o **Triaxial tests**
- o **Chemical tests**
- o **Unconfined Compression Test**
- o **Hand Penetrometer**
- o **California Bearing Ratio**
- o **Bar Linear Shrinkage**

### Engineering Analysis and Report

The field and laboratory data combined with our engineering recommendations are presented in an engineering report. The report addresses specific project design, construction, and quality control requirements.



### **ENVIRONMENTAL ENGINEERING SERVICES**



The environmental laws require that prospective owners of properties conduct a reasonable and appropriate inquiry into the property, its past user, and the associated environmental liabilities. Failure to recognize environmental problems at a site results in significant financial liabilities to the purchaser or the seller. Geotech Engineering and Testing provides Phase I, Phase II, and Phase III Environmental Studies. These studies include ASTM E 1527, Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process, and ASTM E 1528, Standard Practice for Environmental Site Assessments: Transaction Screen Process. GET has a Corrective Action Project Manager (CAPM) on the staff to conduct Environmental Engineering Services.



Our services include, but not limited to the following:

- o **Site reconnaissance.**
- o **Records search and review of regulatory agencies databases.**
- o **Communications with previous owners.**
- o **Aerial photograph review of past property use.**
- o **Review of chain-of-title activity for determining past property use.**
- o **Soil borings and monitor well installations.**
- o **Soil and groundwater sampling.**
- o **Physical and chemical testing of soil and groundwaterwater samples.**
- o **Permitting and remediation, recommendations.**
- o **Asbestos studies.**



- o **Geological fault studies.**
- o **Truck-mounted and ATV drill rig drilling and sampling.**
- o **Geoprobe push sampling.**
- o **Cone Penetrometer Testing (CPT) field investigations.**



Geotech Engineering and Testing's Underground Tank Management Group provides consulting engineering services in the following areas:

- o **Site reconnaissance.**
- o **Corrective action plan, operation, monitoring and performance.**
- o **Regulatory guidance and negotiation.**
- o **Permit application preparation.**
- o **Groundwater monitoring and leak detection.**
- o **Risk assessment and remediation.**

We combine our depth of experience with the latest in environmental, geotechnical, construction materials engineering and computer techniques to provide information necessary for the project. Our professional staff of engineers has intimate knowledge of the expanding technology, its uses, and its limitations.

## CONSTRUCTION MATERIALS ENGINEERING SERVICES

Oil companies, industrial clients and contractors have always been concerned with the performance and quality of materials. Having knowledge of how materials are used and are expected to perform is the key to success of any project. Quality assurance and material testing provides evidence needed to establish the confidence that materials and techniques used are accomplished according to standards required by the design team.



The technical staff of Geotech Engineering and Testing strives to keep abreast of new developments and procedures utilized in quality control programs. Our engineers and field technicians provide a vital link between the owner, professional design team and the contractor.



GET's abilities in construction materials testing include testing and monitoring of the following:

- o **Concrete testing**, including but not limited to; slump, air, cylinders, beams, yield, coring, cement content, mix design verification, batch plant inspection and rebar inspection.
- o **Soil testing**, including but not limited to; densities, proctors, plasticity indices, gradations, -200's, cement and lime stabilization, and geotechnical testing.
- o **Asphalt testing**, including but not limited to; densities, cutback sampling, cores, theoretical specific and gravity, bulk density, gradation and extraction, mix design and stability.

- o **Structural steel**, including but not limited to; weld inspection, A325 Bolt torque, welder qualifications, magnetic particle inspections, ultrasonic, liquid penetrant, paint thickness, holiday testing and sandblasting inspection.



GET's laboratories are approved by Harris County, City of Houston Quality Control, City of Houston Special Testing Department, Texas Department of Transportation, Metropolitan Transit Authority and Texas Department of Criminal Justice.



### **FORENSIC ENGINEERING SERVICES**

Geotech Engineering and Testing's staff specializes in foundations, retaining walls, slopes, and pavement distress studies. Our firm is considered a leading firm in evaluating foundations, slopes and pavement distress studies. We have specialized equipment and sampling devices that enable us to obtain soil samples in limited access areas. Furthermore, with strong instrumentation, non-destructive testing GET's in-house laboratory (testing facilities) capabilities can evaluate distressed structural materials and evaluate the causes of distress and proper remedial measures. During the past 34 years, GET's staff has conducted many forensic engineering projects. Furthermore, our staff members are often hired as expert witnesses and have also testified in court.



### **SAFETY**

Our primary concern is the health and safety of our clients, public and our employees. Geotech Engineering and Testing has a Safety and Health program in place. We have been qualified by Pacific Industrial Contractor Safety (PICS) Auditing to perform work for major clients.

Our staff members are trained at Houston Safety Council and Brazosport Safety Council. Furthermore, they also have Transportation Worker Identification Credential (TWIC) cards. This information is available, if requested.



### **KNOWLEDGE/QUALIFICATIONS**

GET's staff members have advanced degrees in geotechnical engineering. Our staff members include:

Total Number of Engineers: (16)

Number of Technicians: (20)

Number of Drillers: (7)

P.E.'s: (4)

Ph.D's: (3)

Master's: (6)

Bachelor's: (3)

Certifications:

1. NICET

2. ACI

3. TxDOT

Crew Chief Certified: (3)

Helper Certified: (7)

## ACCREDITATIONS

Geotech Engineering and Testing possesses qualifications comparable to an ISO 9000 company. The firm is accredited by the American Association for Laboratory Accreditation (A2LA). The scope of our accreditation includes geotechnical, construction materials testing ASTM E329, C1077 for concrete, D-3740 for soils and D-3666 Bituminous. The firm has also been inspected by Cement and Concrete Reference Laboratory (CCRL), for concrete and aggregate testing. We calibrate our equipment at least every 12 months.



Geotech Engineering and Testing is also involved in the American Association of State Highway and Transportation Officials (AASHTO) materials reference laboratory program.

Through rigorous quality control procedures, we assure our clients the most accurate test results. An in-house quality assurance program is maintained for all of our testing equipment. This process includes updating calibrations of equipment, records and spot checking of test procedures being used by GET's staff and procurement of the newest equipment to ensure reliability.

## IN-HOUSE COMPUTER CAPABILITIES

Our in-house computer capabilities include a networked computer system with 20-stations and the following engineering programs:

- o ***Slope-Stability***
- o ***Settlement***
- o ***gINT***
- o ***PVR***
- o ***Axially-Loaded Piles***
- o ***Wave Equation***
- o ***Contour***
- o ***Seepage***
- o ***Pile Groups***
- o ***VOLFLOW***
- o ***Dynamically-Loaded Structure***
- o ***Laterally-Loaded Piles***
- o ***Pavement Design***
- o ***Sheet Pile Wall Design***

## PROFESSIONAL AFFILIATIONS

Geotech Engineering and Testing is associated with and in most cases a member of the following technical societies:

- o ***ABC – Associated Builders and Contractors, Inc.***
- o ***ACEC - American Council of Engineering Companies***
- o ***HCEC - Houston Council of Engineering Companies***
- o ***ASCE - American Society of Civil Engineers***
- o ***Chi Epsilon - National Civil Engineering Honor Society***
- o ***CMAA - Construction Management Association of America***
- o ***TSPE - Texas Society of Professional Engineers***
- o ***NSPE - National Society of Professional Engineers***
- o ***ASHE – American Society of Highway Engineers***
- o ***GHBA - Greater Houston Builder's Association***
- o ***FPA - Foundation Performance Association***
- o ***ASTM - American Society for Testing Materials***





- o **AGC - Association of General Contractors**
- o **TIBD - Texas Institute of Building Design**
- o **SAME - Society of American Military Engineers**
- o **PTI - Post-Tensioning Institute**
- o **EAA - Environmental Assessment Association**
- o **HAR - Houston Association of Realtors**
- o **APWA - American Public Work Association**
- o **SEAOt - Structural Engineer's Association of Texas**
- o **CEFPI - Council of Educational Facility Planners International**
- o **TAEP - Texas Association of Environmental Professionals**
- o **TAEP - Texas Association of Environmental Professionals**
- o **North Houston Association**
- o **West Houston Association**
- o **Pearland/Hobby Chamber of Commerce**
- o **Heights Chamber of Commerce**
- o **Cy-Fair Chamber of Commerce**
- o **Houston Hispanic Chamber of Commerce**
- o **Fort Bend County Chamber of Commerce**
- o **Cy-Fair Chamber of Commerce**
- o **South Montgomery County Chamber of Commerce**
- o **AIA – American Institute Architects (Houston Chapter)**
- o **PAH – Pipeliners Association of Houston**



## SCHEDULING

Since we have our own drilling rigs and mobile laboratories, GET can generally mobilize on projects anywhere in Texas, Louisiana, Oklahoma, and New Mexico immediately after project authorization. This condition will expedite project execution time. We have a relatively large staff of engineers and support staff who conduct the entire laboratory testing in-house which often results in timely execution of the project tasks.

## INSURANCE

GET's insurance coverage is as follows:

TYPE OF COVERAGE	LIMITS OF LIABILITY
Worker's Compensation	\$1,000,000 each accident \$1,000,000 Disease - policy limit \$1,000,000 Disease - each employee
General Liability: Comprehensive, contractual, independent contractors, personal injury	
o General Aggregate	\$2,000,000
o Bodily Injury	\$1,000,000 each person \$2,000,000 each occurrence
o Property Damage	\$1,000,000 each person \$2,000,000 each occurrence



TYPE OF COVERAGE	LIMITS OF LIABILITY
Automobile Liability: Comprehensive, owned, hired, non-owned	\$1,000,000
Professional Liability: Errors and Omissions	\$2,000,000



**DISADVANTAGED BUSINESS ENTERPRISE**

Geotech Engineering and Testing is certified as a Historically Underutilized Business (HUB) by the State of Texas. GET is also certified as Disadvantaged Business Enterprise (DBE) with Texas Department of Transportation. In addition, GET is certified as a Minority Business Enterprise (MBE) with City of Houston, City of Austin, Houston ISD, SCTRCA and NCTRCA. Furthermore, GET is listed as a Small Business with Metropolitan Transit Authority and Port of Houston.

GET has an affirmative action plan and prohibits discrimination against any employee or applicant for employment due to race, religion, sex, color, national origin, or disability. The firm makes efforts to ensure that employment is offered to applicants without regard to race, religion, sex, color, national origin, or disability.

**APPENDIX A**  
**Typical Projects**

## TYPICAL PROJECTS

### PETROCHEMICAL COMPLEXES

Optimized Process Designs, LLC – Enterprise Natural Gasoline Hydrotreater, Chambers County, Texas  
TriState Mechanical & Environmental Services – Water Draw Leak, Chevron Plant, Galena Park, Texas  
Mustang CAT – Paving and Drainage Improvements, Grovecrest Street from Burr Oak to Bingle Road to Serve Mustang CAT, 12800 Northwest Freeway, Houston, Texas  
Aestimo, Inc. – Tank Structure, JSL Foods, 1219 Carpenter Road, Humble, Texas 77396  
TriState Mechanical & Environmental Services – Canopy Structure at Chevron Products Facility, Galena Park, Texas  
CenterPoint Energy – Propane-Air Peakshaving Facility, Bay Area Boulevard and Red Bluff Road, Pasadena, Texas  
CenterPoint Energy – CenterPoint North I-45 Freeway/Bayou Trace Site, Houston, Texas  
Optimized Process Designs, LLC – Mass Grading Work to Serve Meentone Gas Plant Facility, Mentone, Loving County, Texas  
Chevron Phillips Chemical c/o Cushman & Wakefield of Texas – Metal Building at 1862 Kingwood Drive, Harris County, Texas  
Mustang CAT – Underground Utilities, Lift Station and Manhole, Mustang Cat, 20717 Hufsmith-Kohrville Road, Tomball, Texas  
Optimized Process Designs, LLC – Mentone Gas Plant, Lovington County, Texas  
S. Oliver & Associate – Horizontal Directional Drilling, 16” Carrier Pipe, Spencer Highway Crossing, Exxon Mobil Pipeline Corridor, La Porte, Texas  
Optimized Process Designs, LLC – Targa Plant at 9915 Highway 146 North, Baytown, Texas  
Optimized Process Designs, LLC – Targas Train No. 7, Mont Belvieu, Texas  
Optimized Process Designs, LLC – Targas Train No. 8, Mont Belvieu, Texas  
Optimized Process Designs, LLC – Targas Train No. 9, Mont Belvieu, Texas  
CenterPoint Energy – CenterPoint FM 529/Freeman Road Site, 19001 FM 529, Cypress, Texas  
CenterPoint Energy – CenterPoint Allum/West Junction Site, Hiram Clark Road, Houston, Texas  
CenterPoint Energy – CenterPoint Site, New Caney, Texas  
Sunland Construction – Concrete Testing, Atmos Plant, Waco, Texas  
Sunland Field Services – Compaction Testing, Praxair Celanese, Pasadena, Texas  
Eco-Services – Bearing Capacity and Foundation Evaluation, Eco-Services Plant, 8615 Manchester Street, Houston, Texas  
Air Filters Incorporated – Ground Storage Tank, 8282 Warren, Houston, Texas  
Sunland Field Services – Concrete Testing at The Air Liquide Bus Stop, Exxon Mobile Plant, Beaumont, Texas  
Optimized Process Designs – Targas Resources, Cedar Bayou Fractionator #6, Mont Belvieu, Texas  
Flexible Lifeline Systems – Fall Protection System, Delta Companies, 334 Tidal Road, Deer Park, Texas  
SNC-Lavalin – Storage Tank, Settlement Computations, Tank 1161 Replacement, Exxon Mobile, Baytown Plant, Baytown, Texas  
Brown & Gay Engineers, Inc. – Ground Storage Tank, Hydropneumatic and Booster Pump Station, I-10 near Mason Road, Harris County, Texas  
Mundy Companies – Piling Installation Project, Houston Lubricants Plant at 780 Clinton Drive, Houston, Texas  
Mustang CAT – Storm Inlets, 8” Sanitary Sewer, 8” Waterline and Cul-De-Sac at Newbridge Street and Bingle Road for Mustang CAT, Houston, Texas  
Mustang CAT – 24: Storm Line and Paving Improvements for Mustang CAT at Newbridge Street, Houston, Texas  
Weisser Engineering Company – Benchmarks at Chevron Phillips Chemical Company, Clemens Terminal Project, Sweeney, Texas  
CP International – Bearing capacity Evaluation, 6911 Satsuma, Houston, Texas  
Optimized Process Designs, LLC – Enterprise – Orla Gas Processing Plant, Reeves County, Texas  
Weisser Engineering Company – Benchmarks, Phillips 66 Project, Sweeney, Texas  
Mustang CAT – Grovecrest Street Paving Improvements from Burr Oak Drive to Bingle Road, Houston, Texas  
Brown & Gay Engineers, Inc. – Scrubb Tower and Carbon Unit, 4934 Falcon Forest Drive, Humble, Texas  
Caldwell Tanks, Inc. – Two Crude Oil Storage Tanks, 1302 Simpson Ranch Road, Nordheim, Texas  
Midstream Engineering – Gas Processing Plant, Barstow, Texas  
Brown & Gay Engineers – Water Storage Tanks, Sendona Lake MUD 1, City of Manvel, Brazoria County, Texas  
Kelly Pipe Company – Pipe Storage Yard at 10501 Sheldon Road, Houston, Texas  
Mustang CAT – Mustang CAT Expansion, Rental Services (MRS), 5410 Bur Oak Drive, Houston, Texas  
EREN Services – 100,000 Gallon Water Tank, 27550 Imhof Road, Waller County, Texas  
Altivia – 20,000 Gallon Storage Tank at 1901 Avenue H at S 16<sup>th</sup> Street, Laporte, Texas  
Advantage Pipeline, LLC – Crude Oil Storage Tank, 10 Miles South of Pecos on Highway 1450, Grand Falls, Texas

## **PETROCHEMICAL COMPLEXES (con't.)**

The Mundy Companies – Replacement of Three Oil Storage Tanks, Shell Plant, 780 Clinton Drive, Galena Park, Texas  
Optimized Process Designs, LLC – Enterprise – Gas Processing Plant, Coyanosa, Texas  
Advantage Pipeline, LLC – Crude Oil Storage Tank, 14 Miles South of Pecos on Highway 285, Pecos, Texas  
Sekisui Specialty Chemicals America, LLC – Acetic Acid Storage Tank, 1423 Pasadena Freeway, Pasadena, Texas  
Optimized Process Designs, LLC – Targa Wildcat Project, Wink, Texas  
Optimized Process Designs, LLC – New Enterprise – Scott Eddy Project, Eddy County, New Mexico  
Clark Engineers – Rail Car Platform Steel Barrier, Tenaris Plant, 699 North FM 3083, Conroe, Texas  
Vertex Energy – Limited Ringwall Pad Fill Compaction Evaluation, Vertex Energy Plant, Baytown, Texas  
Bleyl & Associates – Drilling Rig Pads and Crane Loading near D.W. Hooks Airport, Harris County, Texas  
North Shore Steel – Compressor Foundation at 13925 Industrial Road, Houston, Texas  
Livermore Architecture & Engineering, Inc. - Storage Tank Foundations, Texas City, Texas  
LJA Engineering & Surveying, Inc. – Transformer Foundation, STP Site, Wadsworth, Texas  
NuDevco Midstream Development, LLC – 40.0± Acre KCS Plant Site, Port Arthur, Texas  
Landmark Industries – Underground Storage Tank, 8852 Killam Industrial Blvd./Mines Road, Laredo, Texas  
Audubon Engineering Company, L.P. – Additions to Anadarko Monroe CPF, Phase 2, Bones CGF, Black Tip CPF and Avalon CPF Gas Plants, Ward and Loving Counties, Texas  
TD Industries – Machine Foundation at 6501 Navigation Blvd., Houston, Texas  
Zell Hoffman Voelbel & Mason, LLP – Nucor Storage Dome Tank Collapse, Convent, Louisiana  
BEI Engineers – KMI HCP Refrigeration Project, Sheridan, Texas  
Holloman – Compressors, Black Hawk Southwest – 2 Plant, 233 John Pokluda Road, Nordheim, Texas  
Landmark Industries – Underground Storage Tank, 11607 N. O'Connor Road, San Antonio, Texas  
Hawk Installations – Load-Out Facility, Brady, Texas  
HongHua America, LLC – Two Rig Sites, McHard Road, Houston, Texas  
Mustang CAT – Mustang CAT Expansion, Small Bore Building and Pavement, U.S. Highway 290, Houston, Texas  
Johnston, LLC – 40-Acre Manufacturing Facility, Hunting Energy Services, Ameriport Facility, Baytown, Texas  
Audubon Engineering – Murphy Oil Corporation, Baring Central Facility, McMullen County, Texas  
Optimized Process Designs – Dew Point Plant, Carlsbad, New Mexico  
Waldkirch and Saunders Company – South Atlantic Tank Farms #3, 16530 Peninsula Blvd., Houston Texas  
All-Tech Fuel Systems – Hold-Down Pad Project, 4100 Smith School Road, Austin, Texas.  
Targa – Targa 12" Export Pipeline, Mont Belvieu to Galena Park, Chambers and Harris Counties, Texas  
Texmark Chemicals – 100-ft P&G Tower, 900 Clinton Drive, Galena Park, Texas  
Optimized Process Designs – Targa, 400 MMSCFD Cryo Additions, Copano Houston Central Plant, 1650 County Road 255 South, Sheridan, Texas  
Synchro, LLC – Additions to Hempel Coating Facility, 600 N. Conroe Park Drive, Conroe, Texas  
Audubon Engineering – Anadarko Avalon CGF-4, Gas Plant, Loving County, Texas  
Grand Isle Shipyard, Inc. – Chevron Maybee CO<sup>2</sup> Plant, Odessa, Texas  
Castle Design Group, P.C. – Dogget JD Industrial Equipment Facility at 9111 North Freeway, Houston, Texas  
Clark Engineers, Inc. – Pipe Storage Inspection Area, Pipe Handling Building, Tenaris Facility, 699 FM 3083, Conroe, Texas  
South Atlantic Services – South Atlantic Services Tank Farm located at 16530 Peninsula Boulevard, Houston, Texas  
H & B Packing Co., Inc. – 53,152 Gallon Water Tank, Downtown Waco, Texas  
Optimized Process Designs – Targa Cedar Bayou Project, CBF#5/LLEP 2, Mont Belvieu, Texas  
Miner-Dederick Construction – Larsen Intermodal Facility at Northeast Corner of U.S. Highway 90 and Sheldon Road, Harris County, Texas  
TMS Contractors, LLC – SAE Pre-Engineered Metal Building, Tenaris Hydril, 302 McCarty Road, Building F, Houston, Texas  
Jamison Construction Company – Additions to the Vertex Plant located at 200 Atlantic Pipeline Road, Baytown, Texas  
Holloman Engineering, LLC – Hawkville Station, 29509 Ranch Road 624, Cotulla, Texas  
Holloman Engineering, LLC – Black Hawk Central Plant, 751 St. John School Road, Cuero, Texas  
Holloman Engineering, LLC – Black Hawk Southwest – 2 Plant, 233 John Pokluda Road, Nordheim, Texas  
Optimized Process Designs – Targa, 200 MMSCFD CryoGenic Plant, East County Road 230, Midland, Texas  
Conestoga-Rovers & Associates, Inc. – Transformer, Pumps and Control Building, Exxon Mobil, 19615 Old Galveston Road, Webster, Texas  
Womble Company, Inc. – Metal Building at 13605 Industrial Road, Houston, Texas  
Fuqua Construction – Pipe Handling Building, Tenaris Facility, Conroe, Texas  
Audubon Engineering Company – USGC PP Ethylene Expansion, Targa Area 14 and East of Area 14, Mont Belvieu Terminal, Mont Belvieu, Texas  
Hydril Company – Tenaris Westwego Pipe Yard, Concrete Pavement Repair Project, 201 Klein, Westwego, Louisiana  
Tenaris – Tenaris Yard Improvements and Pipe Rack Fabrication on FM 3083, Conroe, Texas

## **PETROCHEMICAL COMPLEXES (con't.)**

R & M Constructors – Crane Foundation at 22015 South Freeway, Manvel, Texas  
Trilogy Solutions Construction, LLC – Shell Truck Scale, 780 Clinton Drive, Galena Park, Texas  
CRA Engineering Group, Inc. – Exxon Mobil Brine Disposal Injection Site, Hardin County, Texas  
Bechtel Equipment Operations – Crane Bearing Capacity at Bechtel Equipment Operations, 7021 Easthaven Boulevard, Houston, Texas  
Tristream East Texas – Replacement Sulfur Pit, Eustace Gas Plant, 16410 County Road 2854, Malakoff, Texas  
Tristream East Texas – Horizontal Tanks, Myrtle Springs Gas Plant, Van Zandt, Texas  
Audubon Engineering – Anadarko Avalon CGF-2 & CGF-3, Loving County, Texas  
Wyman Gordon Forgings, Inc. – Quenching Pit/Tank, Wyman Gordon Facility, 10825 Telge Road, Houston, Texas  
VI Engineering, LLC – Various Electrical Substation Foundations, Jackson County Gas Plant, Jackson County, Texas  
Audubon Engineering Company – Bullet Vessels, Tank Farms and Vertical Heater at Jackson County Gas Plant, Jackson County, Texas  
Tenaris Coiled Tubes, LLC – Tenaris Facility, 8615 East Sam Houston Parkway North, Houston, Texas  
Pal-Con, Ltd. – Pipe-Line Supports at Spectra Energy, 803 Zengerie, Thomaston, Texas  
Optimized Process Designs – Targa Purity Propane Project, Mont Belvieu Facility, Mont Belvieu, Texas  
Optimized Process Designs – Building and Large Detention Pond at OPD Facility, 25610 Clay Road, Katy, Texas  
Optimized Process Designs – Dew Point Plant, Carlsbad, NM  
Optimized Process Designs – Bearing Capacity of Crane Structure, Targa Plant, Mont Belvieu, Texas  
Hydril Company – Pipe Storage Yard, Tenaris Facility at 302 McCarty Drive, Houston, Texas  
Flexible Lifeline Systems – Cable Base Fall Protection System, Shintech, Inc., 5618 Highway 322 East, Freeport, Texas  
SNC-Lavalin GDS, Inc. – Copano ESD Flare System Replacement, Copano Energy, Sheridan, Texas  
Morrow Renewables, LLC – Gas Plant at 14115 Davis Estate Road, Needville, Texas  
Audubon Engineering Operations – Jackson County Plant, Energy Transfer, Jackson County, Texas  
R. G. Miller Engineers, Inc. – Geotechnical Study and Environmental Testing, K-Solv Facility, 16517 De Zavalla, Channelview, Texas  
Optimized Process Designs, Inc. – Targa Mont Belvieu Fractionator Plant, 9915 North Highway 146, Mont Belvieu, Texas  
PEI – Outriggers for the Crane Foundations at 2810 Gulf States Road, Beaumont, Texas  
GSE Lining Technology, LLC – Silo and 12,000 sq. ft. Building with Overhead Crane, GSE Lining Technology, 19103 Gundle Road, Houston, Texas  
PowerCan Construction Services – Cold Drawbench Machine, Building D0001 at Wyman Gordon Forgings, Inc., 10825 Telge Road, Houston, Texas  
Flexible Lifeline Systems – KMCO, LP Plant, 16503 Ramsey Road, Crosby, Texas  
Jaymark Engineering Corporation – Cooling Tower and Building at Houston Airport System, Central Plant, Lodestar Street, Houston, Texas  
Wellhead Distributors International – Car Bottom Furnace, 11633 Spring Cypress Road, Tomball, Texas  
Audubon – Ranch JV Project, Ward County, Texas  
Rhodia, Inc. – Outriggers for Crane Foundations, 3429 Park Street, Houston, Texas  
Tenaris, U.S. - Tenaris Central Warehouse Renovations, 699 FM 3083 Road, Conroe, Texas  
BASF – Concrete Test – SAP Phase I Expansion Freeport, Texas  
Rhodia, Inc. – Outriggers for the Crane Foundation, 8615 Manchester Street, Houston, Texas  
Optimized Process Designs, Inc. – Copano HCP Plant, Sheridan, Texas  
HYDRIL Company – Limited Chemical Testing, Existing Tenaris McCarty Warehouse Facility, 302 McCarty Drive, Houston, Texas  
Audubon – Gas Plant, Jackson County, Texas  
Alan Plummer Associates, Inc. – North Wastewater Treatment Plant, Chemical Feed Facility and Road Improvements, Sugar Land, Texas  
Buster and Cogdell Builders – Commercial Structure at 8541 East North Belt Drive, Humble, Texas  
Rhodia, Inc. – Sulphuric Acid Stressed Area and Pipe Rack Foundation, Unit #8, 8615 Manchester Street, Houston, Texas  
Exiros USA – Central Warehouse Facility Additions at 699 F.M. 3083, Conroe, Texas  
Clean Energy Technology Association, Inc. c/o Ford, Bacon & Davis, LLC – Pyrolysis Demonstration Plant, FB&D Specification No. G67978-Z-0001, Fairfield, Texas  
BASF – Concrete Thickness and Strength Evaluation, Fill Compaction Evaluation, Storage Tank at ANONE II-D161B, Freeport, Texas  
Texas Molecular – Driveway at Texas Molecular at 2525 Independence Parkway, Deer Park, Texas  
Rhodia, Inc. – Crane Foundation Loading at an Existing Retaining Wall, Rhodia Facility, 8615 Manchester, Houston, Texas  
Rhodia, Inc. – Bearing Capacity, Crane Foundation for Tank Placement at Rhodia Eco Services Facilities, 8615 Manchester Street, Houston, Texas

## INDUSTRIAL SITES

Clark Industrial - Expansion of Ammonia Facility to Serve Southern Ionics, Pasadena, Texas  
Borden Dairy Company – Building and Parking Lot at Borden Dairy, Conroe, Texas  
Mauser USA, LLC – 180,000 lb. Recuperative Thermal Oxidizer Foundation Recommendations at 4004 Homestead Road, Houston, Texas  
Optimized Process Designs, LLC - Panther II Cryo Plant, Upton County, Texas  
Igloo Products Corp. – Four Silos, Katy South and Katy North Igloo Plants, Katy, Texas  
Mustang Cat – Mustang Cat Large Bore Canopy Extension, 12800 Northwest Freeway, Houston, Texas  
Sunland Field Services – Praxair Celanese, Pasadena Pipeline, Pasadena, Texas  
Sunland Field Services - Exxon Mobile Plant, Beaumont, Texas  
Sunland Field Services - Waller Gas Generator Project, Waller, Texas  
Huffco Services, Inc. – Buildings 6 and 7, North Frazier Industrial Park, Conroe, Texas  
Sunland Field Services – Exxon Mobile Plant, Beaumont, Texas.  
First Houston Properties, Inc. – North Frazier Industrial Park at the Corner of North Frazier Street and Hilltop Drive, U.S. Highway 75, Conroe, Texas  
BW Builders- Amerigas Facility at 10985 FM 1485, Conroe, Texas  
Vertex Energy – Storage Tank and Existing Ringwall, 200 Atlantic Pipeline Road, Baytown, Texas  
JNS Engineering, LLC – North Frazier Industrial Park at the Corner of North Frazier Street and Hilltop Drive, Conroe, Texas  
Mustang CAT – Mustang – CAT Expansion, US. Highway 290, Houston, Texas  
Woodlands Design Group, Inc. – Amerigas Parking Lot Expansion at 70985 FM 1485, Conroe, Texas  
Ref-Chem, LP – Air Products Baytown Retrofit Project, 5503 West Baker Road, Baytown, Texas  
Lamberti USA – Treatment Tank, Aeration Basins and Clarifiers at Lamberti USA, Inc., US 59 and County Road 212, Hungerford, Texas  
Draftit, LLC – Existing Pump Foundations, at FM 1042 and US 281, Live Oak County, Texas  
Borden Dairy Companies – CMU Structure at Borden’s Plant, 900 East Semands, Conroe, Texas  
Industrial Scale Company – Bearing Capacity Recommended for Truck Scale, Tenaris Facility, Conroe, Texas  
Warehouse Pit UTEX Industrial 1314 Industries Lane Conroe, Texas  
Mark Whiteley and Associates – Pipes under the KCS  
Rail Yard, South Park Drainage, Beaumont, Texas  
Endurance Contracting – Commercial Building at Kickapoo Road, Houston, Texas  
Proem - Greens Bayou Holdings Industrial Building, 1566 Mile Street, Houston, Texas  
Apache Services, Inc. - Equipment Foundation, Old Beaumont Highway, Houston, Texas  
Borden Milk Products, LP – Borden Air Center Facility Expansions, Air Central Boulevard, Houston, Texas  
O’Neal, Inc. – Project 21 Cedar Crossing, Baytown, Texas  
CJ Michael Industrial Services, LLC – Concrete Testing at Entergy – Cedar Hill Station, 15202 Cockfield Road, Conroe, Texas  
Ameriport Facility, Phase I, Pavement Design Recommendations, Houston, Texas Targa Resources – Deethanizer Fractionation, Mont Belvieu, Texas  
LJA Engineering and Surveying, Inc. – Design of sheet Piling Retaining Wall for the River Revetment Structure at The Colorado River, Matagorda County, Texas  
Kelly Pipe Company – Pipe Storage Yard, Houma Louisiana  
Alternative Energy Group, Inc. – Bio-Diesel Processing Plant, 8510 E. Sam Houston Parkway N., Harris County, Texas  
Bury + Partners Engineering Solutions – Intermodal Cartage, 17.9 Acre Property, Kopman Drive, Houston, Texas  
RB Hardy and Sons - Evaluation of the Thickness of Clay Liner, Shell Refinery, Pasadena, Texas  
URS Field Services - Columns and Skid Foundations, Tylor County Facility, Woodville, Texas  
BOC – 9000 Gallon Oxygen Tank and Vaporizers, Pasadena, Texas  
DB Western, Inc. – Plant Structures, La Porte, Texas  
Brown and Root - Harbor Island Fabrication Yard, Port Aransas, Texas  
S-Con, Inc. – Compressors and Skip Foundations, Madisonville, Texas  
Cheveron Chemicals – Cedar Bayou Plant, Baytown, Texas  
General Foods - Building expansions, Houston, Texas  
City of South Houston - Sewage Treatment Plant, South Houston, Texas  
Sewage Treatment Plant, FM 2100 at Wolf Road, Harris County, Texas  
DFO Tank Car Unloading - BNSF, 8115 Southeast 3<sup>rd</sup> Street, Amarillo, Texas  
General Foods Corp. – Maxwell house Plant I, Houston, Texas  
MCAT Parts Warehouse and Data Center; 12800 NW Fwy Warehouse and Mezzanine-Mustang CAT

## **MARINE TERMINALS**

Mathes Brierre Architects – Blessy Marine Services, Inc., New Office Building, 17512 Market Street, Channelview, Texas  
Kirksey Architecture – Port of Houston Administration Building, Bayport Terminal, Bayport, Texas  
Houston Port Authority - Barbour's Cut, Terminal 6, Houston, Texas  
Port of Houston – Wastewater Treatment Plant, Jacinto Port, Houston, Texas  
Port of Houston – Storage Lane and Crossover Connection, Terminal 6, Cut Boulevard, Houston, Texas  
Inbesa America Docking Facility - Jacinto Port, Texas  
Consortium Consultants - Tenneco Barge Dock, La Porte, Texas  
Port of Houston – Paving of Car Yard at Barbour's Cut Boulevard, Houston, Texas  
Brown and Root - Reynolds Metal Marine Terminal, Gregory, Texas

## **TOWERS**

JDM Steel Construction, LLC – Tower and Metal Building at 3222 Counts Road, Point Blank, Texas  
Todd Shipyard Dock Facility - Houston, Texas  
Port of Houston – Ship Water Services, Interim Cruise Terminal, Houston, Texas  
Port of Houston – Additional Trackage at Bulk Material Hauling Plant, Houston, Texas  
Phillips Petroleum Company - Freeport Docking Facility, Freeport, Texas  
Port of Houston – Repair Bunker Dock between Warehouse 9 and 10, Houston, Texas  
Phillips Petroleum Company - Adams Terminal, Pasadena, Texas  
Centerpoint Energy – 150- to 180-ft Tall AGL Lattice Tower, Garden Villas Substation, 8802 Mykawa Road, Houston, Texas  
CHR Solutions – 190-ft Tri-Pole Tower located at Highway 137 and Glasscock County Road 130, Garden City, Texas  
CHR Solutions – 190-ft Tri-Pole Tower located at Highway 137 and Reagan County Road 56, Garden City, Texas  
Centerpoint Energy – 160- to 190-ft Tall AGL Tower, Friendswood Substation, 2603 FM 528, Webster, Texas  
Centerpoint Energy – 150-ft Tall AGL Monopole Tower, Freeport Substation, 102 FM 1495, Freeport, Texas  
Centerpoint Energy – 160- to 190-ft Tall AGL Lattice Tower, Spencer Substation, 1600 Vista Road, Pasadena, Texas  
Centerpoint Energy – 160- to 190-ft Tall AGL Lattice Tower, Clear Lake Substation, 40320 El Dorado, Houston  
Centerpoint Energy – 160 to 190-ft Tall AGL Tower, Kavsten Substation, 15610 Highway 6, Rosharon, Texas  
Centerpoint Energy – 160- to 190-ft AGL Monopole at the Texas Instruments Substation, 12201 Southwest Freeway, Stafford, Texas  
Centerpoint Energy – 150-ft AGL Monopole at the Missouri City Substation, 915 FM 2234, Missouri City, Texas  
Centerpoint Energy – 150-ft AGL Monopole at the Missouri City Substation, 5500 FM 2234, Missouri City, Texas  
Centerpoint Energy – 160- to 190ft AGL Monopole at the Westheimer Substation, 13000 Westheimer Road, Houston, Texas  
Centerpoint Energy – 160-to 180-ft AGL Lattice Tower at the Clodine Substation, 13427 Bissonnet Street, Houston, Texas  
Centerpoint Energy – 150-ft AGL Monopole at the Westchase Substation, 3835 Rogerdale, Houston, Texas  
Centerpoint Energy – 160- to 190-ft AGL Monopole at the Brazos Valley Substation, 5325 FM 723, Richmond, Texas  
Centerpoint Energy – 160- to 190-ft AGL Tower at the Meadow Substation, 2011 county road 936, Alvin, Texas  
Centerpoint Energy – 160- to 190-ft AGL Tower at the Arcola Substation, 6601 FM 521, Arcola, Texas  
Centerpoint Energy – 160-ft AGL Lattice Tower for Woodcreek Substation at 1122 Red Haw, Houston, Texas  
Centerpoint Energy – 160-ft AGL Lattice Tower for Britmoore Substation at 1317 Britmoore Road, Houston, Texas  
Centerpoint Energy – 160-ftAGL Lattice Tower for Dyann Substation at 3821 Highway 60 South, Wharton,  
TexasCenterpoint Energy – 160-ft AGL Lattice Tower for Telephone Road Substation at 11600 Telephone Road, Houston, Texas  
Centerpoint Energy – 180-ft AGL Lattice Tower for the South Lane City Substation, 11401 Highway 60 South, Lane City, Texas  
Trico Tower – 100-ft Self Supporting Tower, Port Lavaca, Texas  
Centerpoint Energy Houston Electric, LLC – 120-ft Concrete Monopole at 25615 FM 1093, Richmond, Texas  
Centerpoint Energy Houston Electric, LLC – 120-ft Concrete Monopole at 1002 Blaloch, Houston, Texas  
Centerpoint Energy Houston Electric, LLC – 120-ft Concrete Monopole at 27006 Freeman Road, Katy, Texas  
Centerpoint Energy Houston Electric, LLC – 120-ft Concrete Monopole at 3501 School Road, Needville, Texas  
Centerpoint Energy Houston Electric, LLC – 120-ft Concrete Monopole at 627 Old Wharton Road, East Bernard, Texas  
Centerpoint Energy – 150-ft AGL Lattice Tower for the Mustang Bayou Substation at 3511 County Road 159, Alvin, Texas



## **TOWERS (con't.)**

Centerpoint Energy – 150-ft AGL Lattice Tower for the Liverpool Substation at 10811 County Road 171, Liverpool, Texas  
Centerpoint Energy – 150-ft AGL Lattice Tower for the Wallis Substation at 501 FM 1093 West, Wallis, Texas  
Centerpoint Energy – 150-ft AGL Lattice Tower for the Raccoon Bend Substation at 3302 Oil Field Road, Bellville, Texas  
Centerpoint Energy – 180-ft AGL Lattice Tower for the South Lane City Substation, 11401 Highway 60 South, Lane City, Texas  
Centerpoint Energy – 150-ft AGL Lattice Tower for the Rosharon Substation at 2323 FM 1462, Rosharon, Texas  
Centerpoint Energy – 150-ft AGL Lattice Tower for the Alta Loma Substation at 3525 FM 646, Alta Loma, Texas  
Centerpoint Energy – 120-ft. Concrete Pole for the Newport Substation at 2110 Diamond Head Boulevard, Houston, Texas  
Centerpoint Energy – 120-ft. Concrete Pole at 8210 Old Clute-Angleton Road, Lake Jackson, Texas  
Centerpoint Energy – 120-ft. Concrete Pole at 11401 Highway 60, Lane City, Texas  
Centerpoint Energy – 120-ft. Concrete Pole at 10610 Bay Area Boulevard, Pasadena, Texas  
Centerpoint Energy – 120-ft. Concrete Pole at 10403 Highway 146, Mont Belvieu, Texas  
Commercial Wireless Solutions – 190-ft. Tall Self Supporting Tower at 1912 Lakeland Drive, Liberty, Texas  
Commercial Wireless Solutions – 190-ft. Tall Self Supporting Tower at 2400 Beaumont, Liberty, Texas  
Commercial Wireless Solutions – 190-ft Tall Self Supporting Tower at 226 Pech Avenue, Cleveland, Texas  
Commercial Wireless Solutions – 190-ft. Tall Self Supporting Tower at 5A Oak Drive, Lake Jackson, Texas  
Commercial Wireless Solutions – 190-ft. Tall Self Supporting Tower at 114 E. Texas Street, Brazoria, Texas  
Commercial Wireless Solutions – 150-ft. Tall Self Supporting Tower at 104 Cannan Drive, Angleton, Texas  
Allstate Tower, Inc. – Communications Cell Tower, Baytown, Texas  
PSG Engineering, Ltd. – Compressive Strength and ASR Test of Cell Tower Foundation, Houston, Texas  
Independence Wind Power – Wind Turbines at Selected Matagorda County School Campuses in Texas  
MG Consulting Services – Sector Antenna, 1400 JFK Blvd., Houston, Texas  
MG Consulting Services – Sector Antenna, 858 Gateside Drive, Houston, Texas  
MG Consulting Services – Sector Antenna, 438A West Helms Road, Houston, Texas  
PDG Architects – Cooling Tower, Johnson Space Center, Houston, Texas  
Multatech Engineering, Inc. – Sand Tower at 2831 Produce Row, Houston, Texas  
Nextel - Towers all over the Gulf Coast Area  
Houston Cellular Telephones - More than 20 towers at various locations  
GTE Mobilnet - More than 10 towers at various locations.  
Houston Lighting and Power - Towers, substations at various locations  
Guyed Tower, Johnson Space Center, Houston, Texas

## **ENVIRONMENTAL SITE ASSESSMENTS AND UNDERGROUND STORAGE TANK STUDIES**

Phase I ESA, Dixie Drive, City of Houston, Texas  
Phase I ESA, Waterline Replacement, Ridgcrest Subdivision, Houston, Texas  
Phase I ESA Pech Road, from Long Point to West View & from Westview to South of Drainage Ditch, Houston, Texas  
Phase I ESA, Westbury East Waterline Replacement, City of Houston, Texas  
Limited Phase IIA ESA, West Bellfort Boulevard Expansion between SH 6 and Eldridge Parkway, Paving and Underground Utilities, Fort Bend County, Texas  
Phase I ESA, Chimney Rock Drive from Benning Drive to Yarwell Drive, City of Houston, Texas  
Phase II ESA, Westbury Subdivision, Harris County, Texas  
Phase I ESA, 54 Acre Development, Highway 36, Rosenberg, Texas  
Phase I ESA, Endangered Species, Oil and Gas Well Search and Petroleum Pipeline Study, 76.1 Acre Development, North of Dixie Farm Road, Brazoria County, Texas  
Phase I ESA, Endangered Species, Oil and Gas Well Search and Petroleum Pipeline Study, Kings Lake Subdivision, Section 1, 2, 3, and 4, Harris County, Texas