



# SOIL REMEDIATION SERVICES

Turnkey Environmental Solutions

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







## COMPANY OVERVIEW

Amerapex Corporation is a technology, engineering and industrial services company based in Houston, TX with operations globally, offering technical expertise in processes and facilities. Our mission is the advancement of our clients. Through innovation, technology, integrated engineering and industrial solutions, Amerapex brings the highest quality and optimal cost to our clients. Within Amerapex Corporation are Amerapex NDT LLC and Amerapex Services Group LLC.

Amerapex NDT LLC provides non-destructive testing services to a number of different industries including the petrochemical and refining industry. With an ever-growing demand for specialty inspection projects, we're the fastest growing provider of inspection programs that are specifically designed for the customer.

Amerapex Services Group LLC provides industrial solutions that include comprehensive cleaning and maintenance services to extend asset life, as well as ensure the integrity and safety of assets. In addition, Amerapex Services Group LLC provides turnkey environmental solutions to help ensure a healthy environment.

### Amerapex's Divisions



### Amerapex's Locations



#### Domestic Locations:

Houston, TX (Corporate)  
Borger, TX  
Corpus Christi, TX  
Pasadena, TX  
Port Arthur, TX  
Port Lavaca, TX  
Midland, TX  
Texas City, TX  
Cushing, OK  
Philadelphia, PA  
Bellingham, WA

#### International Locations:

Calgary, Alberta, Canada  
Macaé, Brazil  
Lagos, Nigeria  
Baghdad, Iraq  
Georgetown, Guyana

## OUR COMMITMENT TO SAFETY

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The safety of Amerapex employees, contractors, customers, and stakeholders is a critical priority of our commitment to ensure a safe and healthy working environment where everyone is empowered to make the necessary changes to mitigate risks.

Amerapex's commitment in pursuing excellence is to never compromise, but to promote a culture where safety is not only an individual obligation, but a management responsibility. We're committed to building a world-class organization where health, safety and the environment are integrated into every aspect of the processes we perform and the mental acuity of our employees. We strive to realize a "Culture of Zero" whereby achieving a record of workplace health and safety that leads the world.



## OUR COMMITMENT TO QUALITY

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Amerapex will consistently provide products and services that meet or exceed the requirements and expectations of our customers. We will actively pursue ever improving quality through programs that enable each employee to do their job right the first time and every time. Each employee understands and subscribes to the principle: "Quality is my responsibility."

**Amerapex Corporation** and **Amerapex NDT LLC** have achieved ISO 9001:2015 certification. ISO 9001:2015 is a globally recognized certification of quality management system standards. These standards further communicate Amerapex's commitment to develop processes ensuring consistency, reliability, and accountability across their business operations. By achieving this level of certification Amerapex continues to demonstrate our competence and desire to effectively and efficiently provide a quality management system while continuously improving our products, services, and internal processes.





## REMEDIATION VALUE PROPOSITION



### ELIMINATES TRANSPORTATION COSTS

Amerapex's remediation system eliminates the cost of transporting impacted soils off-site, as well as the tipping fees associated with landfill disposal. In today's economy, we're faced with rising fuel prices, driver shortages, and general cost increases across the board. On-site remediation alleviates those costs and, in most cases, ART saves clients 40-50% compared to off-site disposal options.



### NO CLEAN FILL REQUIRED

With Amerapex, no clean fill is required. With off-site disposal, the excavated area must be backfilled with clean soil, or "clean fill." Clean fill can be challenging to procure and often times expensive. With the ART system, the original remediated soils are placed back into the hole, so no clean fill from an off-site location is needed.



### REMOVES CLIENT LANDFILL LIABILITIES

Amerapex's remediation system eliminates the need to dispose impacted soils in landfills. As a result, this eliminates the business risks associated with past/future landfill operations. Many of our clients have been assessed Superfund liabilities associated with solid waste disposal in landfills that were subsequently closed. They've become "potentially responsible parties" to a significant remedial cost. ART helps to eliminate this risk going forward.



### DECISION-MAKING CONTROL

When impacted soils are remediated on-site, the client maintains control of these materials. They remain involved in every operational decision as the materials are treated and are not dependent upon others to make the right disposal decisions on their behalf.



### OPTIMAL RESULTS

All impacted soils remediated utilizing Amerapex's system are compliant with local, state, and federal environmental clean-up standards. Analytical documentation assuring compliance with these regulations is provided to the client upon project completion.



### ENVIRONMENTALLY- FRIENDLY ALTERNATIVE

The economic benefits of Amerapex's remediation system are indisputable, but it's also a more environmentally-friendly option. Effective soil remediation provides a safer and cleaner environment for plant, animal, and human life. Carbon emissions are reduced and landfill disposal is avoided making Amerapex's remediation system a more sustainable alternative.

## ON-SITE REMEDIATION SERVICES

Amerapex offers safe and effective soil remediation services that result in elimination of waste generation, off-site transport, landfill disposal, or import of clean fill. We help clients eliminate potential landfill liability concerns and significantly reduce costs by using a combination of mechanical and chemical processes to remediate impacted soils.

### Pre-Remediation Process

Amerapex completes several steps prior to bringing the first piece of equipment on a client's site. The characteristics of the soils and contaminants of concern vary from site to site. The steps outlined below provide assurance that Amerapex can treat the impacted material for the price we quote our clients.

#### STEP 1

Identify the state/federal regulatory agency with jurisdiction over the site. This allows Amerapex to determine the cleanup standards applied to the site.

#### STEP 2

Collect representative samples at the impacted site. Representative samples show a good cross-section of the impacted area of the site. Amerapex sends the samples in appropriate containers and at the appropriate temperatures to a pre-approved laboratory being sure to maintain chain-of-custody.

#### STEP 3

Analyze samples for contaminants of concern for each specific site.

#### STEP 4

Compare the analytical results to the clean-up standards developed by the appropriate regulatory agency.

#### STEP 5

Identify potential treatment chemicals to be applied.

#### STEP 6

Set up pilot tests in Amerapex's Pasadena facility to determine the appropriate treatment chemical and the most effective dosage.

The process described above informs our project plan and price quote for the full-scale project.





## The Process

Once the pre-remediation process is completed, Amerapex brings the necessary equipment and machines on-site to begin the remediation process. First, the impacted soils are run through Amerapex's remediation machine. This machine reduces the soil particle size to maximize surface contact area. Next, the soils are exposed to the appropriate oxidants necessary to reduce the contaminant concentration to the negotiated levels. Lastly, the treated soils are backfilled into the original excavation.



### **The Benefits:**

- Remediation of impacted materials at rates up to 300 cubic yards per hours
- Enables beneficial reuse of materials on/off-site
- Eliminates landfill/land farm liability issues
- No long-term land farm monitoring
- Zero waste generation from project
- Cost savings between 30-60% compared to landfill disposal

### **Treatable Contaminants:**

- |                  |             |
|------------------|-------------|
| • Crude Oil      | • Lube Oils |
| • Condensate     | • Chlorides |
| • Diesel         | • Metals    |
| • Gasoline       | • Oils      |
| • Drill Cuttings | • TCE       |
| • Amines         | • Many more |

### **Solutions For:**

- |             |                  |
|-------------|------------------|
| • Soil      | • TCE            |
| • Water     | • Drill Cuttings |
| • Chlorides | • Hydrocarbons   |
| • Metals    | • Many more      |





# EXPERTS IN INTEGRATED SOLUTIONS



## ASSET MANAGEMENT

- API Inspections
- Acoustic Emission Testing (AET)
- Corrosion Under Insulation (CUI)
- Tubing Inspection
  - Eddy Current Testing (ECT)
  - Pulsed Eddy Current (PEC)
- Electromagnetic Acoustic Transducer (EMAT)
- Heat Exchanger Integrated Services (HEXIS)
- High-Speed Vertical Tube Inspection (HVTI)
- Magnetic Particle
- Phased Array
- Positive Material Identification (PMI)
- Radiography
  - Computed Radiography (CR)
  - Digital Radiography (DR)
- Rope Access
- Storage Tank Inspection
- Time of Flight Diffraction (TOFD)
- Turnaround Inspections



## ENVIRONMENTAL SOLUTIONS

- Demolition & Restoration
- Project Management & Consulting
- Remediation Services
- Waste Management



## INDUSTRIAL SOLUTIONS

- Hydroblasting/Hydrocutting
- Mechanical Services
  - Piping Fabrication & Repairs
  - Blinding & Isolation
  - Structural & Civil
  - Pipeline/Station Services
  - Tank & Vessel Services
- Tank & Vessel Cleaning
- Confined Space Rescue (CSR)
- Pipeline Construction, Maintenance & Integrity



## ENGINEERING SERVICES

- Civil/Structural Engineering
- Electrical Engineering
- Information Technology
- Instrumentation & Control Engineering
- Mechanical Engineering
- Piping Engineering
- Process Engineering
- Procurement
- Profitability Applications
- Program & Project Management
- Industrial Water Treatment
- FPSO Commissioning/Decommissioning
- FPSO Manufacturing Inspection
- Drops Inspection
- Aluminum & Duplex Welding



## MECHANICAL INTEGRITY

- Asset Management
- Corrosion Studies
- Criticality Assessments
- Failure Mode Effects Analysis
- Key Performance Indicators (KPIs)
- Maintenance Optimization
- Performance Standards
- Reliability Studies
- Risk Assessments
- Risk Based Inspection (RBI)
- Strategies & Procedures



## GREEN ENERGY SOLUTIONS

- Windmill Blade Inspection
  - Phased Array
  - Rope Access
- Bio-diesel Technology



## SEISMIC SERVICES

- Geological Services
- Data Acquisition
- Field Processing

## Contact Us

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