

# PROJECT PROFILE

## REMEDIATION AND REDEVELOPMENT OF BROWNFIELD SITES

D'Appolonia provides environmental and civil engineering services to support the characterization, remediation and redevelopment of abandoned industrial sites. In Western Pennsylvania we have facilitated the redevelopment of several former steel and glass making sites in the Ohio and Monongahela River Valleys. D'Appolonia typically employs remediation alternatives associated with Pennsylvania's Act 2 of 1995 and similar laws to aid redevelopers in mitigating environmental liabilities associated with old industrial properties. Our approach includes:

- An initial evaluation focusing on site redevelopment potential and possible environmental liabilities involving review of environmental records and the industrial processes used at the site to assess existing environmental conditions.
- A detailed environmental assessment to determine remediation requirements and to develop baseline environmental conditions for use in agency agreements. Initial remediation planning and cost estimation is also conducted at this stage.
- Preparation of demolition and remediation specifications for asbestos abatement, removal of bulk materials and residual waste, and contaminated soil remediation or containment. We also provide civil engineering services for site redevelopment including stormwater conveyance systems, and design of



*Former industrial site transformed into attractive 250,000-ft<sup>2</sup> commercial complex.*

features such as retaining walls and road and parking areas.

- Monitoring of demolition and environmental remediation. This involves recording site waste removal and disposal. Through this effort, unanticipated conditions are quickly characterized and addressed so that costly delays are avoided.
- Assembling all characterization and disposal records at the completion of the project. The assembled site records are used to demonstrate that risks to human health and the environment have been properly addressed, to document waste disposal, and to facilitate obtaining releases from further liability from environmental regulators.

D'Appolonia stays abreast of changes in environmental regulations, particularly those associated with Pennsylvania's Act 2. Our familiarity with the regulations and with agency personnel results in remediation and redevelopment efforts that are conducted in an environmentally compliant and cost-effective manner.



*These structures were demolished as part of environmental remediation, allowing for conversion of this riverfront property into a light-industrial park.*



*Scrap steel from demolition at this site was used to offset environmental remediation costs.*