



**Environmental  
Science &  
Engineering  
Consultants**

GENERAL SERVICES



# At SynTerra, we're all about client success and a healthy environment.

SynTerra is a different kind of consulting firm. There's a unique investment in clients and the environmental health of their communities. There's diversity at SynTerra — in people and expertise.

Safety is a priority at SynTerra. Guided by a comprehensive safety program, we consistently earn an Experience Modification Rating (EMR) that is substantially better than the industry average.

SynTerra is employee-owned, so there's no answering to outside investors. The focus is on helping clients comply with environmental regulations, and on meeting their business objectives in a cost-effective way. The goal is to holistically improve the client's business.

*"Thank you for the innovative final cover design and other exceptional work. It allowed us to put a million dollars in excess closure accrual to our bottom line this month."*

**Forest Products Executive**  
Fortune 500 company

*"Our local consultant had been working on this for five years, and despite substantial effort and resources, we were stalled. So we brought in SynTerra, and a solution was found — quickly."*

**Environmental Director**  
Fortune 100 company



### SCIENCES

Regulations are intended to balance concerns of public policy and impact with the ability to run an economy. Each side wants its concerns to be validated and protected. SynTerra scientists measure the impacts and assess the movement of environmental constituents within the air, water, and soil. Data is collected in a way that can be replicated and is representative of site conditions. Site investigations are designed to help clients make data-based business decisions. SynTerra scientists also interpret and use data to understand an ecosystem. This gives clients the information necessary to develop the most appropriate response to a set of data.

### COAL COMBUSTION RESIDUALS (CCR) RULE COMPLIANCE

The EPA rule for coal combustion residuals was developed to protect the environment and public health. The intent of the rule is positive, but interpretation and compliance are challenging. A full complement of technical disciplines is needed to achieve compliance. That is why it's important to team with a partner possessing a comprehensive working knowledge of the CCR Rule. SynTerra fills that need. Clients get a partner with vast and varied experience in compliance activities. Clients also get expertise in detection system design, statistical evaluation, groundwater assessment planning, implementation, and corrective action.

### GEOTECHNICAL ENGINEERING

Unknown subsurface conditions are one of the leading factors for construction delays and litigation. Subsurface conditions influence whether a building can be placed on shallow foundations or requires a type of deep foundation system. The earlier this information is known in the planning process, the better for all parties involved. At SynTerra, our geotechnical engineers design a site-specific study for each project, depending on the size, complexity, and loading conditions of each project.

### FOREST PRODUCTS

SynTerra is an innovator of environmental solutions for the pulp and paper industry. Known for expertise in solid waste, residuals management, and groundwater, SynTerra provides a broad range of services to a diverse set of clients — from the largest companies to small independent mills. SynTerra expertise covers: all major regulatory programs; mill environmental, health, and safety initiatives; facilities design; and technical staffing. SynTerra innovations include the use of large diameter geotextile tubes for wastewater treatment sludge dewatering and the use of fiber sludge landfill caps.

### SOLID WASTE MANAGEMENT

This is a core market for SynTerra. Our expertise includes: beneficial reuse and disposal of industrial solid waste; disposal of municipal waste; and management of hazardous waste. SynTerra prides itself on creative designs that progress rapidly through the permitting process, are built without major changes and delays, and function effectively once completed. SynTerra has been integral in the successful management of residuals at many pulp and paper mills, as well as RCRA permitting, investigation, and closure at cement manufacturing plants.

### CIVIL ENGINEERING

Civil engineering affects every part of our lives. With civil engineering, we manage our waste, develop our roads, build our cities, and protect our environment. SynTerra is immersed in all those essential activities. SynTerra engineers provide a broad range of services to industry, mining, utilities, developers, and governmental agencies. We take projects from initial local, state, and/or federal permitting through conceptual and detailed design, concluding with construction oversight. Working with environmental scientists and geochemists, SynTerra civil and geotechnical engineers develop effective designs that result in successful regulatory approvals.

### WATER & WASTEWATER ENGINEERING

Water is the lifeblood of this planet, so it is imperative that we act as stewards of a safe and reliable water supply. SynTerra helps clients meet this objective in an economical manner, while also helping them stay in compliance with laws, regulations, and good industry practices. The SynTerra team has experience in virtually every aspect of a water or wastewater utility, from planning to design to operation. And SynTerra services do not end with project completion and closeout — SynTerra continues to work with clients to assist them in effective and efficient operations.

### MINING

Mining and minerals processing facilities face numerous challenges, including: continuity of operations; land disturbances that can affect streams and wetlands; water and air requirements; and management of work safety. Planning is critical — to ensure reserves are available, permits are in place, and equipment will perform. Cost control is essential. SynTerra has the technical expertise and extensive regulatory experience mining operations need. SynTerra produces innovative, cost-effective designs for large-volume waste materials such as mine overburden, minerals processing wastes, and sludge.

### INDUSTRIAL

Environmental regulations present myriad moving parts and the potential to derail the best-laid plans. For industrial operations, it often feels as if regulations are set up to hinder innovation. SynTerra engineers have worked in the manufacturing environment, and they are well-versed in the constraints that regulations and permits impose. Employees at SynTerra are capitalists with respect for human health and the environment. Our approach to regulatory compliance and permit application development is to capture the essence of the public policy goals and address what the regulations require. SynTerra works with clients to optimize the balance between regulatory constraints and operational flexibility.



# Solving complex challenges

Business objectives must be met, but there can be a multitude of disparate challenges. Clients turn to SynTerra for help designing cost-effective solutions. SynTerra listens closely. Work safety, a healthy environment, positive community relations, and regulatory compliance frame the thought process — and drive the design.

# Making personal commitments

The best solutions are holistic. They're based on commitments to the well-being of people who work for a client and for those who live in a client's community. SynTerra honors those commitments by designing solutions that support safe working conditions and a healthy environment.

# Investing in our future

SynTerra has a diverse and highly skilled team. Exceptional people are challenged and supported in their career development. SynTerra is employee-owned, unencumbered by the expectations of outside shareholders. We are free to invest in employee success, engage in the community, and embrace environmental stewardship. So we do.



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