



Construction Quality Assurance (CQA) is a vital aspect of a successful project. CQA provides the owner confidence that project plans and specifications were fully implemented, that the installation will perform as designed, and that regulatory requirements were met. CQA documentation is typically required for regulated projects such as landfills, impoundments, roads, foundations, and stream relocations. CQA services must be performed in collaboration with the owner, the general contractor, specialty contractors, and the contractor's quality control personnel to accomplish construction objectives efficiently and in conformance with quality requirements.

Construction with confidence

CQA can involve a wide range of construction materials used under diverse conditions. SynTerra engineers and technicians support construction projects that entail rock, soil, slurries, wastes, concrete, synthetic materials, and vegetative plantings. Project applications include landfill base liner and leachate collection systems, final cover construction, landfill and wastewater pump stations, large settling impoundments, earthwork for stream channel relocation, concrete structures, and building construction.

Field services are supported by civil and geotechnical engineers in our offices throughout the Southeast, our geotechnical laboratory in Lexington, KY, and our relationships with national geosynthetic testing facilities. Surveying often supports CQA services. SynTerra provides survey support using conventional ground-based equipment and Unmanned Aircraft Systems (UAS, or drones) to document construction conditions. CQA data are typically compiled with record or "as-built" drawings, laboratory test results, photographic documentation, daily reports, and scope change documentation into a Construction Certification report for permitted facilities or a Construction Documentation report for owner records.

SYNTERRA CQA EXPERIENCE

- Landfill cell construction
- Landfill final closure
- Pump station and discharge piping
- Coal refuse slurry impoundments
- Lime mud pond impoundment closure
- Mine tailings impoundments
- Stream mitigation and relocation
- Landslide mitigation
- Concrete structures
- Geogrid applications
- Erosion and sedimentation control inspection

