

CHARLES W. FIEDLER, P.E., LEED, AP
Senior Project Director



Fields of Expertise

- Environmental and Civil Engineering;*
Oilfield Waste Processing and Disposal Facilities
Solid Waste Facility Siting, Design, Permitting, Construction
Solid Waste Facility Community Involvement
Solid Waste Landfill Cell Design and Construction
Solid Waste Gatehouse and Maintenance Facilities
Solid Waste Municipal and Regional Planning
Landfill Gas Collection System Design, Development, Permit
Landfill Gas Collection System Construction/Commissioning
Landfill Gas Beneficial Use; Composting System Design
Transfer/Collection Station and Material Recovery Facilities
Regulatory Compliance and Litigation Support
Expert Witness for Environmental Engineering Issues
- New Mexico Environment Department
 - Texas Department of Health
 - Texas Commission on Environmental Quality
 - Texas Legislative Committees
 - Texas State District Court
 - Arkansas State District Court

Registrations

Professional Engineer: New Mexico 19731
Professional Engineer: Texas 52247
LEED Accredited Professional-USGBC-2009

Education

Bachelors of Science Civil Engineering
Texas A&M University, 1978
Master of Science Civil Engineering
Texas A&M University, 1982

Professional Summary

A proven record of expertise and leadership in the management of waste materials focused primarily on the design and development of containment systems for liquid and solid wastes. Significant experiences over the last 37 years bridging between the technical issues of a consultant's design and the practical implementation of that design in a landfill or pond. Routinely responsible for interacting between consultants, owners, employees and contractors, translating between different levels of technical competency in the successful implementation of the project. Highly motivated and creative problem solver. Natural ability to manage relationships with all levels of an organization, as well as with the project community. Experiences in both the public and private sector as the regulator and regulated entity.

Professional Affiliations

- National Society of Professional Engineers*
New Mexico Society of Professional Engineers
Solid Waste Association of North America
Landfill and Landfill Gas Divisions
SWANA-Roadrunner Chapter
National Solid Waste Management Association-NM Chapter
New Mexico Recycling Coalition
US Green Building Council-New Mexico Chapter

Select Project Experience

GEOMEMBRANE LINER PROJECTS

DNCS Environmental Services

Lea County, NM 2014

Developed permit documents and plans for an OCD Part 36 Surface Waste Management Facility. This project includes a 318-acre landfill design that utilized a double composite liner composed of a Geosynthetic Clay Liner (GCL) overlain with a 60-mil HDPE Flexible Membrane Liner (FML), a 200-mil HDPE Geonet leak detection layer, a primary 60-mil HDPE FML, a 200-mil HDPE Geonet leachate collection layer and two feet of protective soil. Additionally, this facility included a produced water management facility composed of twelve, 2-acre ponds that were designed with a double composite liner composed of a secondary 60-mil HDPE FML overlain with a 200-mil Geonet leak detection layer and a primary 60-mil HDPE FML. Also designed for this facility was a 5-acre stabilization and solidification facility that included a double composite liner system that utilized the landfill liner configuration.

Sandoval County Landfill

Rio Rancho, NM 2014

Developed plans, specifications and procurement documents for the construction of Cell 4C, 5B, 6B and 7, comprising 32.3 acres lined with a GCL/FML composite liner on a compacted subgrade that included a geonet drainage layer. Managed procurement to select a contractor. Oversaw construction that included the liner and a leachate collection system with sump and pump. Managed the CQA and compiled documentation required for approval by the State.

Camino Real Landfill

Sunland Park, NM 2014

Developed plans, specifications and procurement documents for Cell 9BA, a 5-acre GCL/FML composite lined excavation on a compacted subgrade. Managed procurement to select a contractor. Project was placed on hold by the Owner due to capital issues within the company.

**BEFORE THE OIL CONVERSION
COMMISSION**
Santa Fe, New Mexico
Exhibit No. 26
Submitted by: NMOGA
Hearing Date: February 13, 2015

Select Project Experience (cont.)

Valencia Landfill and Recycling Facility
Valencia County, NM 2014

Developed plans, specifications and procurement documents for Cell 5A, a 6-acre GCL/FML composite lined excavation on a compacted subgrade. Managed procurement to select a contractor. Oversaw the construction that included the liner and the development of the leachate collection system. Managed the CQA and compiled the documentation required for approval by the State.

Lea County Landfill
Eunice, NM 2011

Developed plans, specifications and procurement documents for the construction of Cell 4, a 9.5-acre excavation with a GCL/FML composite liner on a compacted subgrade. Managed procurement to select a contractor. Oversaw construction that included the liner and a leachate collection system with sump and pump. Managed the CQA and compiled documentation required for approval by the State.

Camino Real Landfill
Sunland Park, NM 2010

Developed plans, specifications and procurement documents for Cell 10A, a 6-acre GCL/FML composite lined excavation on a compacted subgrade. Managed procurement to select a contractor. Oversaw the construction that included the liner and the extension of the leachate collection from the previous cells. Managed the CQA and compiled the documentation required for approval by the State.

City of Tucumcari Landfill
Tucumcari, NM 2010

Developed plans, specifications and procurement documents for Cell 2B, a 4-acre GCL/FML composite lined excavation on a compacted subgrade. Managed procurement to select a contractor. Oversaw the construction that included the liner and the installation of a leachate collection and temporary sump. Managed the CQA and compiled the documentation required for approval by the State.

Sandoval County Landfill
Rio Rancho, NM 2010

Developed plans, specifications and procurement documents for the construction of Cell 5A, a 10-acre excavation with a GCL/FML composite liner on a compacted subgrade. Managed procurement to select a contractor. Oversaw construction that included the liner and a leachate collection system with sump and pump. Managed the CQA and compiled documentation required for approval by the State.

City of Denton Landfill
Denton, Texas 2002 and 2004

Managed the design and construction of the second and third FML composite lined cells, including bidding, CQA, survey control, leachate recirculation and documentation. The liner system consisted of a compacted clay subgrade overlain with a 60-mil HDPE FML, a 200-mil HDPE Geonet and a two-foot protective soli layer.

Canyon Landfill
Canyon, Texas 1999

Engineer of record and principal designer for this 10-acre waste disposal cell containing a GCL/FML composite liner on a compacted subgrade. Developed plans, specifications and procurement documents. Managed procurement to select a contractor. Oversaw construction that included the liner and a leachate collection system with sump and pump. Managed the CQA and compiled documentation required for approval by the State.

West Texas Region Landfill
Lubbock, Texas 1997

Engineer of record and principal designer for this 1,200 acre disposal facility for the City of Lubbock, Texas. Challenges included how and where to start the active development of this large a facility to minimize impact on the surrounding landowners. Once successfully permitted, developed construction plans and specifications to construct the initial infrastructure including gate house/offices with scales, heavy equipment maintenance and crew facilities, access roads and initial 20-acre cell excavation and GCL/FML composite liner. The facilities cost \$450,000 to design and \$6.5 million to construct.

Covel Gardens Landfill
San Antonio, Texas 1992

Manager responsible for the design and development of the earthwork, composite lined cell, roads and environmental controls relating to the initial construction of this facility. This was the first composite lined municipal solid waste landfill cell in Texas, utilizing a 60-mil HDPE FML. Planned development, negotiated construction contracts, coordinated consultants, orchestrated community relations, formulated schedules and budgeted expenditures. Intimately involved in delicate negotiations with City officials. Developed a significant knowledge of the market conditions and influences, including the significant individuals involved. This \$5 million project was completed ahead of schedule and within budget.