



Coastal Plains RDF

Coastal Plains Recycling and Disposal Facility (RDF) is a regional facility that provides safe and convenient disposal services for communities, businesses and industries serving Alvin and surrounding areas.

Waste Management's approximately 300 disposal facilities employ the latest advances in landfill technology. This facility is engineered with environmental protection systems that meet or exceed rigorous government regulations and are subject to highly regulated monitoring and reporting requirements. Systems include engineered liners and covers, leachate collection and removal, and landfill gas collection and control.

Containment Design

Landfill cells are constructed using a composite liner system, which provides a positive barrier for groundwater protection. The liner system consists of a 60-mil High Density Polyethylene (HDPE) liner in direct contact with a three-foot thick layer of compacted soil. A bentonite slurry wall around the disposal cell perimeter is keyed into an underlying impermeable clay layer as an additional protective barrier for groundwater.

Leachate Collection & Treatment

Leachate is collected through a network of perforated collection pipes and leachate collection sumps equipped with extraction and clean-out pipes used in conjunction with the composite liner system. Leachate is conveyed from the collection sumps via pumps and hoses directly into storage tanks.

Groundwater Monitoring

Groundwater is monitored at 21 wells, both upgradient and downgradient of the waste disposal footprint. The groundwater monitoring network is sampled and analyzed semi-annually in accordance with the procedures of the facility's groundwater sampling and analysis plan.

Landfill Gas Management

Coastal Plain's methane monitoring, collection and management system consists of over 150 gas wells which feeds the methane gas into the flare and co-generation facility that produces electricity. Nineteen perimeter probes that are monitored quarterly help detect any methane gas leaving the facility.

Security

Site security is ensured by controlled, limited access to the facility as well as perimeter fencing and electronic surveillance. The facility can only be accessed via a single gate, which directs all traffic to a gatehouse occupied during business hours by trained personnel. During non-business hours the gate is locked and monitored by electronic surveillance.

COASTAL PLAINS RDF

21 000 East Hwy 6
Alvin, TX 77511
800 963 4776

HOURS OF OPERATION

Monday – Friday: 7:00am – 5:00pm
Saturday: 7:00am – 3:00pm

Class 1 Waste:
Monday – Friday: 8:00am – 4:00pm

YEAR OPENED

1985

PROJECTED LIFE REMAINING

25 years

FACILITY ACREAGE

660 acres

PERMITTED FOOTPRINT

128 acres

REMAINING PERMITTED CAPACITY

10.9 million tons total
(Class 1 and Class 2)

TONS PROCESSED ANNUALLY

419,000 tons

OWNERSHIP

Waste Management of Texas, Inc.

PERMIT TYPE & PERMIT

MSW 1721A

REGULATORY AGENCIES

Texas Commission on Environmental
Quality (TCEQ), Galveston County
Health District

EMPLOYEES

17

WASTE MANAGEMENT

Acceptable Material

Asbestos – Friable/Non-Friable

Auto Shredder Residue

Biosolids

CERCLA Waste

Construction & Demolition (C&D) Debris

Drum Management – Solids & Liquids

Oil Exploration & Production (E&P) Waste

Industrial & Special Waste

Liquid Waste

Municipal Solid Waste (MSW)

Sludge

Yard Waste



Unacceptable Material

CFC (Freon) Containing Items

Explosives

Lead Acid Batteries

PCB Liquids

Pressurized Gases

Radioactive or Nuclear Waste

Regulated Hazardous Waste

Used Oil

Whole Tires

CONTACT

Technical Support

TSC Texas

800 963 4776

TSCTexas@wm.com

COMMUNITY RELATIONS

Lisa Doughty

713 647 5564 or ldoughty@wm.com

COMMUNITIES SERVED

Brazoria, Fort Bend
and Galveston Counties

Additional Services Provided

Composting

Solidification

Risk Mitigation

Waste Management's in-house professionals employ best management practices at Coastal Plains, which includes using state-of-the-art site design and management systems, to minimize potential risks.

Community Partnerships and Involvement

Coastal Plains RDF is proud to be an active supporter of community events and programs that make Brazoria County a strong and healthy place to live, work and play.

This facility also supports the following events, charities, schools and service groups:

Alvin Community College

Alvin-Manvel Area Chamber of Commerce

Santa Fe Chamber of Commerce

University of Houston, Clear Lake

