



Willow Creek Landfill

CCS LANDFILL SERVICES

PLANT PROFILE

Hours of Operation	7am to 6PM, 7 days a week, or by appointment
Location (LSD)	N½ 15-053-25 W5M
Directions to Facility	The facility is located 25km north of the town of Hinton, AB on the Willow Creek Road. Turn east into location at km25
Mailing Address	Box 6386, Hinton, AB, T7V 1X6
Phone	780-865-5364
Fax	780-865-5387
Area Sales and Marketing	780-223-2400
Class and Approval	Class II Landfill
Permit Number	Alberta Environment Approval #245630-00-00
LF Design	The Engineered Class II Landfill features a composite liner system and a leachate collection and removal system. The liner system consists of a 60 mil high density polyethylene (HDPE) primary liner underlain by a geosynthetic clay liner (GCL). This composite liner system is constructed over a prepared subgrade consisting of a 600mm thick compacted clay layer.
Groundwater Monitoring	A ground water monitoring program is in place with onsite monitoring wells located both up-gradient and down-gradient of the landfill cells. Sampling occurs twice a year with analysis compared to background analysis and past groundwater sampling events. Analytical reports are available for viewing at the site. Results are submitted annually to the appropriate regulatory authority. Acid water and oil (must be neutralized), KCL water, caustic water, cement water, frac oil, drilling mud, wash water, contaminated soil.
Surface Water Controls	Surface water is managed to prevent clean surface water from entering the landfill. Any water inside the landfill is contained and collected as leachate.
Waste Acceptance Protocol	The Waste Approval Application (WAA) is submitted along with appropriate third party accredited lab analytical attached. The waste stream is approved for disposal by the landfill and an approval number is issued. The first load from every approval location is tested along with random sampling of waste streams entering the facility. Testing parameters include parameters used to approve the waste stream.
Waste Placement	Facility utilizes a three dimensional alpha numeric grid locating system with surveyed elevations. Documentation is maintained showing the location of each load.
Waste Tracking Documentation	Every load of waste coming to the site must be accompanied by a CCS Non Hazardous Waste Docket, complete with approval number. This waste docket serves as a certificate of transportation and disposal.
Plant Biography	The Willow Creek Landfill facility opened on November 3, 2008. The industrial cell is able to take both industrial and oilfield waste streams. The majority of waste disposal is oilfield drill cuttings.