



Rainbow Lake Landfill

CCS LANDFILL SERVICES

PLANT PROFILE

Hours of Operation	8am to 5pm, 5 days a week, or by appointment
Location (LSD)	SE-1/4 05-111-05W6
Directions to Facility	The facility is located 40 km east of Rainbow Lake, 100 km west of High Level.
Mailing Address	Box 393, Rainbow Lake, AB T0H 2Y0
Phone	(780) 956-5650
Fax	(780) 956-5630
Area Sales and Marketing	(780) 625-1610
Class and Approval	Class II Landfill
Permit Number	Alberta Environment Approval No. 193262-00-00
LF Design	The Engineered Class II industrial disposal cell contains a composite liner system made up of a 1.0 meter compacted clay liner (CCL) overlain by a 60 mil high density polyethylene (HDPE) geomembrane. The leachate collection system consists of a perforated pipe collection and removal system, gravity fed by a geomembrane drainage layer. The composite liner exceeds the regulated minimum for industrial landfill construction
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 as per ground water monitoring plan 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
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. The treatment pad is graded to direct all precipitation into a holding tank which then gets pumped into the clarifier which is located on the TRD facility
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 rainbow lake facility opened summer of 2003, expansion was completed summer of 2004, to accept all oilfield waste stream material that meet landfill criteria disposal