



Tower Road Landfill

CCS LANDFILL SERVICES

PLANT PROFILE

Hours of Operation	7am to 6pm, 7 days a week, or by appointment
Location (LSD)	NW ¼ 27-053-13 W5M
Directions to Facility	The facility is located immediately off Hwy 16 on the Tower Road, between Carrot Creek and Niton Junction, Alberta
Mailing Address	Niton Junction PO Box 526, Carrot Creek, AB T0E 0G0
Phone	780-795-2467
Fax	780-795-2542
Area Sales and Marketing	780-223-2400
Class and Approval	Class II Landfill
Permit Number	Alberta Environment Approval #203668-00-00
LF Design	The Engineered Class II Landfill features a composite liner system and a leachate collections and removal system. The liner system consists of a 60 mil high density polyethylene (HDPE) geomembrane over a 1.0m compacted clay liner (CCL). The leachate collections system is made up of a series of gravel covered perforated leachate pipes and a geocomposite material. The composite liner exceeds the regulated minimum for industrial landfill construction. The landfill site also contains a bioremediation area with 0.6m engineered clay liner base covered with a .03m protective soil 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
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 double lined leachate collection pond with a leak detection system. Any clean surface water is collected in a pond so it does not enter the landfill
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



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Plant Biography

The Tower Road Landfill facility opened in December 2004. The industrial cell is able to take both industrial and oilfield waste streams. The majority of waste disposal is oilfield drill cuttings. The treatment pad on site accepts waste streams that require passive remediation to meet disposal criteria. Access to the site is off a primary highway onto a paved access road. Access to CCS Tower Road landfill is not subject to seasonal load restrictions

Other Information

Industrial Cell #3 finished construction in summer 2006. Cell #4 construction planned for 2009