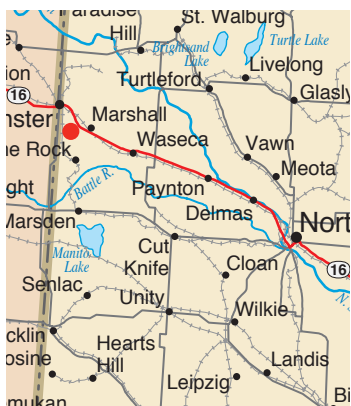


Marshall Landfill



ENGINEERED LANDFILL DISPOSAL



Plant Profile:

Hours of operation	7AM to 7:30PM
Location	02-21-048-26W3
Directions to facility	From Marshall, SK take Hwy 16 East for 3 km. Turn south and continue for 2.7 km.
Address	Box 316, Marshall, SK S0M 1H0
Phone	306-387-6507
Fax	306-387-6188
Class and Approval	Class II Oilfield Landfill
Permit Number	Saskatchewan Environment POO4-330
LF Design	An Engineered Class II Landfill featuring, for cells 1 & 2, a composite liner comprised of a 60mil high density polyethylene (HDPE) liner underlain by a 1.0 meter minimum thick engineered clay liner. Cell 3 and all future landfill cells will be constructed using a composite liner comprised of a geocomposite clay liner and 60 mil HDPE. All cells have a leachate collection system. Cell construction is subject to a strict QA/QC program managed by third party Professional Engineering Consultants.
Groundwater Monitoring	A ground water monitoring program is in place with 9 wells located up gradient of the landfill cell and 3 wells located down gradient of landfill cell. Sampling occurs 2 times a year with analysis compared to background analysis. Analytical reports are available for viewing on 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.
Waste Acceptance Protocol	A three step process that begins with: 1) the application for disposal (WCD) submitted with third party accredited lab analytical attached. 2) random sampling of waste streams entering the facility. Testing for gross parameters including; flashpoint, pH, paint filter and NORM detection. 3) equipment operator observes loads as they are being received for discrepancies.
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	All approved loads must be accompanied by a completed CCS Non-hazardous & Non-dangerous Waste Manifest. Manifest serves as a Waste Disposal certificate.
Expansions	Cell 5 construction to be completed end of July 2004.
Plant Bio	In the Fall of 1999, CCS Energy Services purchased the Class 2 Oilfield Landfill facility in Marshall, Saskatchewan. CCS Energy Services is currently operating the facility in cooperation with the Rural Municipality of Wilton. CCS Marshall is currently licensed to accept the following up-stream waste streams: produced sand/stung sand, upstream contaminated soils, and fresh water drilling muds.

Contact:

Box 316
Marshall, SK
S0M 1H0
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