

## DRILLING WASTE MANAGEMENT




Nor-Alta Environmental Services Ltd. has the experience and expertise to effectively plan, coordinate and execute all aspects of Drilling Waste Management and Disposal. Our team is trained in multiple fields allowing them to “see the big picture” and perform cross-functional tasks without the need to dispatch additional personnel. Utilizing key environmental personnel with training, experience and knowledge of the entire scope of work provides our clients with greater efficiency and cost-savings.

Our team of professionals include Agrologists, Biologists, Chemists, hydrogeologists, and engineers, working together to provide a wide range of environmental consulting services available throughout Western Canada.

Prior to the start of any conventional or horizontal directional drilling program, our Drilling Waste Management team can work to develop & document storage and disposal solutions that meet the highest level of regulatory compliance. Our team of experienced professionals can collaborate with the client to determine the most cost-effective and environmentally responsible options for the safe management of all types of drilling waste.

PLANNING / STORAGE	DISPOSAL MANAGEMENT	ADDITIONAL SERVICES
<ul style="list-style-type: none"> <li>• Drilling Waste Management Project Planning               <ul style="list-style-type: none"> <li>• Drilling Waste Storage Planning</li> </ul> </li> <li>• Land Acquisition as required for storage and disposal               <ul style="list-style-type: none"> <li>• Sump Suitability Assessments</li> </ul> </li> <li>• Earthen-Berm Suitability Assessments               <ul style="list-style-type: none"> <li>• Environmental Liner Delivery &amp; Installation</li> </ul> </li> <li>• Storage Bin Delivery &amp; Installation</li> <li>• Analysis of Mud Additives/Program to ensure regulatory compliance</li> </ul>	<ul style="list-style-type: none"> <li>• Drilling Waste Disposal Notification Reporting</li> <li>• Waste Disposal Tracking, Reporting</li> <li>• Sampling and Analysis of Drilling Waste to ensure regulatory compliance prior to disposal</li> <li>• Mud additive tracking and analysis to ensure regulatory compliance</li> <li>• Coordination and Supervision of Mix-Bury-Cover disposal operations</li> <li>• Coordination and Supervision of Landspray/Landspray While Drilling disposal operations</li> <li>• Coordination and Supervision of Landspread disposal operations</li> <li>• Sampling and Tracking for Landfill Facility disposal</li> </ul>	<ul style="list-style-type: none"> <li>• Soil Monitoring               <ul style="list-style-type: none"> <li>• Turbidity Monitoring</li> </ul> </li> <li>• Water Well Mapping, Sampling and Testing for pre-drill and post-drill events</li> <li>• Frac Monitoring and Emergency Spill Response</li> <li>• Environmental Inspection Services               <ul style="list-style-type: none"> <li>• Reclamation &amp; Remediation Assessments</li> </ul> </li> </ul>

With a broad and multi-disciplinary view of environmental requirements, we're uniquely positioned to recommend solutions that help our clients:

 Take a proactive approach to regulatory compliance.	 Mitigate environmental risks on the job site.	 Demonstrate greater environmental responsibility.
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