



Project Profile: Truck to Rail Crude Oil Transfer Containment



Oil producers in Alberta have proverbially "Climbed on Board" shipping by railcar an estimated 120,000 barrels of oil per day to refiners on the east coast and the U.S. Gulf.

While the North American energy boom has boosted oil and gas production to record levels, companies have run into major difficulties with respect to transport. Major oil production centers like northern Alberta still remain largely underserviced by pipelines; however energy companies are highly resourceful and have increasingly turned toward other methods of transporting crude oil. Even legendary investor Warren Buffett is cashing in on this trend.

Industry estimates show as much as 4% of total Canadian crude is now being shipped via rail and analysts think the industry is just getting started, as more than \$1-billion has been rolled out in expanding rail infrastructure.

To respond to this growing need, Contain Enviro Services Ltd has installed several secondary containment systems designed to accommodate the transfer of crude oil from transport trucks directly into rail cars that offers both environmental protection and a functional design.

Our zero ground disturbance, corrugated steel, secondary containment system is installed along the rail tracks, typically running along 600-800 feet of rail, enough distance to accommodate the loading of multiple rail cars. The system is also designed to be wide enough to allow vehicles to pass each other safely. The secondary containment system is then lined with a geomembrane that is covered by a protective layer of geotextile and 4-6 inches of sand. Earthen ramps are constructed at both short ends of the containment to facilitate truck traffic in and out of the containment. Rig mats are then placed over the sand and earthen ramps to provide a working surface for vehicle traffic or snow removal.



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Sumps are situated inside the containment to manage snow-melt and rain fall events. These sumps are located in low sections of the containment and can be tied into weeping tile along the containment wall to further expedite drainage.

Contain Enviro Services Ltd provides solutions to manage any spills under the rail cars as well. Injection molded polyethylene trackpans can be placed directly under the railcars to catch any spills or leaks that may occur during the transfer process.



These trackpans have been manufactured specifically for this purpose and fit neatly between, and alongside the existing rails. The units can be connected together to combine their capacity, or can be plumbed to a sump or the adjacent containment via below grade piping.

The units come in standard 53.5" long units and are available with optional covers to keep the rainwater out when they are not in use.

Contain Enviro Services Ltd. is the leader in the supply and installation of corrugated steel containment systems for use as primary or secondary containment in a wide variety of challenging applications, and can provide you with the design support to deal with your most demanding application.

For More Information, Please Visit Our Website www.contain.ca