

# GRAVEL RECLAMATION



These photos show a 400m graveled town road that has developed extensive potholes, washboard and has little visible gravel. This road had been scheduled for re-construction, including re-graveling, by the County.

Due to the hardness of the road surface a grader would be unable to blade the road and would therefore have to break up the surface with a grader's ripper bar (which has no depth control and often breaks into and disturbs the clay base). This would be followed by sub-base re-compaction then re-graveling and re-shaping as per the County's current methods.

Instead of resorting to the grader's ripper bar, the Road Badger utilized its infinite depth control system and retrieved the road surface material at a pre-determined depth of 2 inches in approximately 1/2 hour.

The Road Badger reclaimed ample aggregate material to re-grade the road as well as eliminating all road defects without disturbing the road base.

By using the Road Badger the County was able to avoid base contamination, sub-base re-compaction and re-graveling; saving a large amount of the tax payer's money on aggregate and equipment operation costs.



## A FEW OF THE GRAVEL ROADS THAT THE ROAD BADGER HAS RECLAIMED ARE:

Lac St. Anne County, Alberta  
TWP Road 571 - W of Secondary 764

Mountain View County, Alberta  
RR 1 - S of Secondary 582

Elk Island National Park, Alberta  
Road to Simmons Trail, Info Parking Lot

## PETROLEUM BASED

# STABILIZER RECLAMATION



These photos show a petroleum based stabilized town road that has developed potholes, ruts and washboard.



The County's current method of road maintenance would be to scarify the road surface with a grader's ripper bar, which, due to its lack in depth control could cause contamination to the existing aggregate and soil stabilizer with sub-grade material. Then re-surface with the costly addition of extra aggregate material and stabilization product.

The county asked if the Road Badger machine could alleviate their concerns.

The Road Badger broke-up, retrieved and re-mixed the existing road surface material, eliminating the road defects while preserving the integrity of the road base.



Due to the results of the Road Badger, the county decided there was no need to add any materials.

This 1200 meter road was in poor condition but after 1 hour of using the Road Badger and without the addition of extra surface material, the town had a smooth driving surface at a substantial savings to the taxpayers.



### **A COUPLE OF THE PETROLEUM BASE STABILIZED ROADS THAT THE ROAD BADGER HAS RECLAIMED ARE:**

Sturgeon County, Alberta  
Lamoureux Drive

Birch Hills County, Alberta  
Town of Eaglesham



# COLD-MIX RECLAMATION



The photos show the Road Badger rejuvenating an existing cold-mix asphalt road in a local subdivision.

The road was scheduled to be scarified and windrowed prior to 80 cubic yards of aggregate and 7,200 litres of oil being added in order to restore the road to a smooth driving surface.



Instead, the Road Badger scarified the road surface at a pre-determined depth of 3 inches, reclaiming and re-mixing the existing material without disturbing the subgrade.

The Road Badger was able to recover sufficient material to re-grade the road and the County decided that the additional aggregate and oil were no longer required.



Instead, the County added a stabilizer and utilized the Road Badger to mix the product into the road surface material. The Road Badger uniformly mixed the material and product together in-place and the road was completed by profiling and then compaction.

The ability of the Road Badger to effectively and efficiently reclaim the road surface material and mix in a stabilization product provided the County and its constituents with great cost savings.



## A FEW OF THE COLD-MIX ROADS THAT THE ROAD BADGER HAS RECLAIMED ARE:

Sturgeon County, Alberta  
RR 245 - N of TWP 542

Sturgeon County, Alberta  
Sliverchief Subdivision

Sturgeon County, Alberta  
RR 261 - TWP 540

# PRODUCT MIXING



These photos show a newly re-constructed road base with a fresh gravel lift of between 4-6 inches deep and approximately 14 feet wide, intended to be stabilized with a lignum based stabilization product.

After application of the stabilization product, the Road Badger was used to effectively and efficiently mix the product into the gravel lift in a single pass.



Following mixing, the grader unhooked the Road Badger and began profiling the road surface, tight blading to shape the crown for appropriate drainage. Compaction with a dual wobbly system completed the project.

The stabilization process was complete in minimal time and with little vehicle disruption due to the fact that the Road Badger is able to uniformly mix the product in-place.



The Road Badger allows applicators the opportunity to mix stabilization products into the road surface in less time and with an increased efficiency then conventional blade mixing and at a much lower cost then a reclaimer.



**THE ROAD BADGER HAS RECENTLY BEEN INVOLVED IN A STABILIZATION MIXING PROJECT AT THE FOLLOWING LOCATION:**

Wheatland County, Alberta  
WEST 24-24-26 WEST 4