

Photo report

Creation of access roads including a highway junction to a pig breeding plant in Podberezje in the region of Velikiy Novgorod with NovoCrete®

- Location: Podberezje/Russia
- Area: approx. 26.000 m²
- Period of execution: Sept./Oct. 2010
- Time needed: approx. 3 weeks
- Cement: 180 - 210 kg/m³ (2 - 3% NovoCrete)
- Milling depth: 35 - 45 cm

OPiS AG

Gewerbepark
Industriestr. 59
CH - 6034 Inwil / LU
Switzerland

Soil stabilisation with NovoCrete®



Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 2



Initial situation at the gravel road



Concrete plates on the former driving lane



Initial situation before filling up the silty clay material

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 3



Initial situation before starting the soil stabilisation process



Preparation of the later track



Preparation of the track to the highway access

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 4



Delivery of the cement



Loading procedure of the spreader unit



Spreading of cement

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 5



Tractor with attached spreader unit for the cement additive NovoCrete®



Spreading of the cement additive NovoCrete®

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 6



Check of the spreaded amount of NovoCrete®



Net amount of 1,3 kg/m² NovoCrete® for this section (45 cm milling depth)

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 7



Milling of the binding agent material up to a milling depth of 0,45 m

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 8



Milling of the binding agent material up to a milling depth of 0,45 m

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 9



Use of the Grader for the levelling

Photo report: Creation of an access road to a pig breeding plant in Novgorod

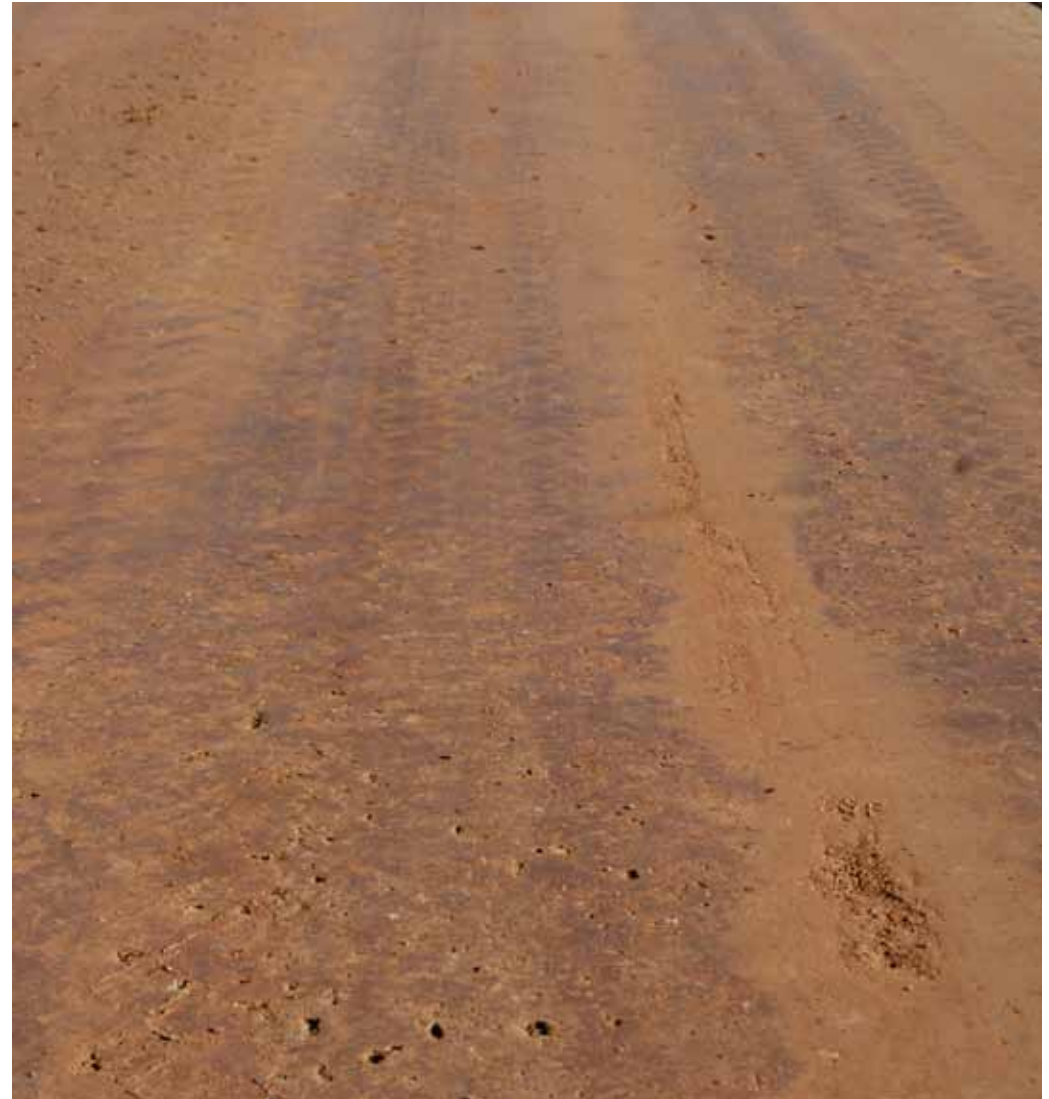
page 10



The steel drum roller was used for compaction



Dynamic and static compaction with steel drum roller (weight of 12 tons)



Surface after compaction

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 11



Area in the crossing section of gravel road and soils consisting of clay/silt after irrigation



Irrigation as protection against evaporation

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 12



Permanent irrigation of the area



Area one day after compaction



Close-up of the finished area

Photo report: Creation of an access road to a pig breeding plant in Novgorod

page 13



Finished „gravel road“



Close-up of the finished former gravel road



Final situation of the former gravel road

Photo report: Creation of an access road to a pig breeding plant in Novgorod

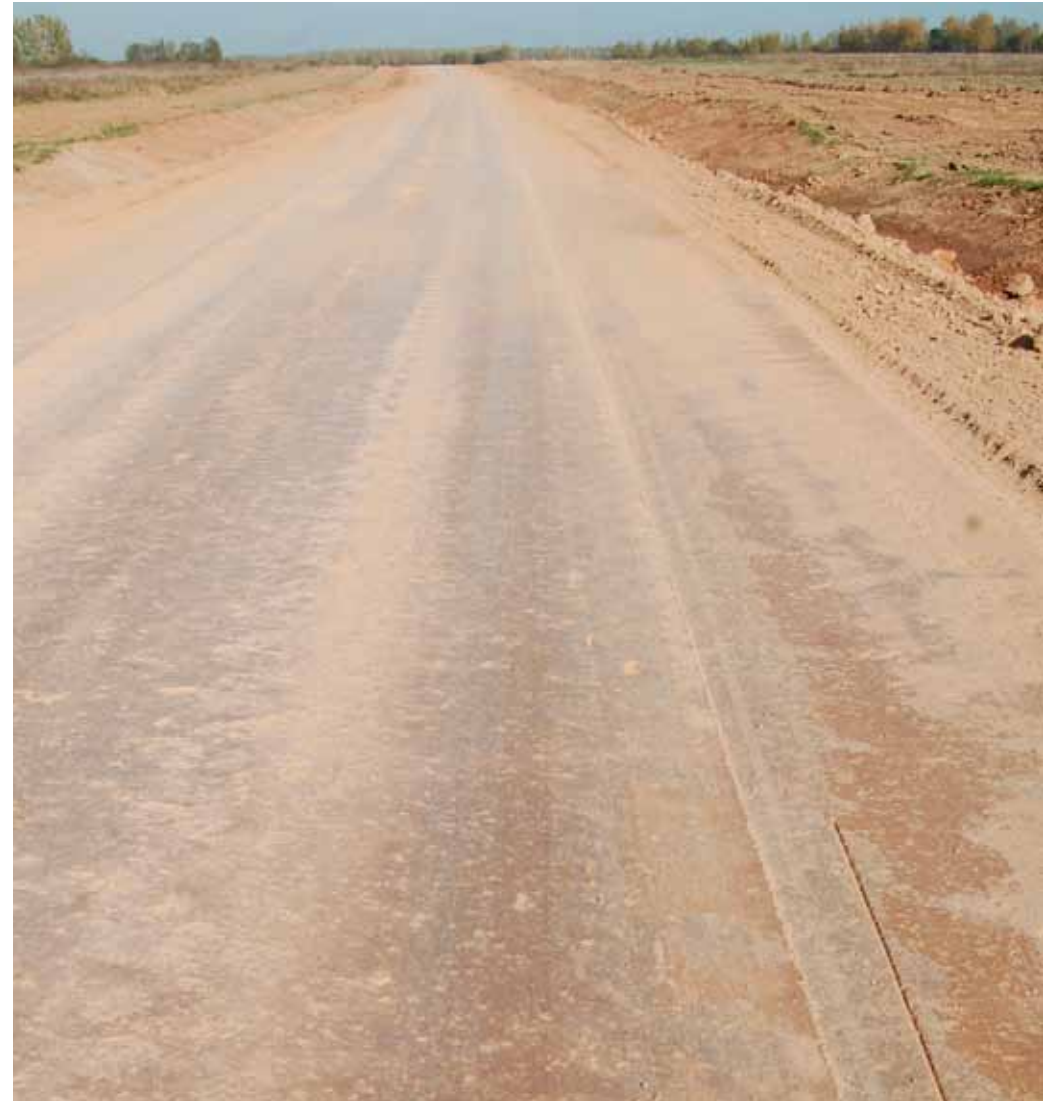
page 14



Finished section with soils consisting out of clay and silt



Finished section with soils consisting out of clay and silt



close-up of the area with soils consisting out of clay and silt

Photo report: Creation of an access road to a pig breeding plant in Novgorod

The german-russian team incl. the entire equipment

page 15

