Drainage and groundwater quality change after construction of manure storage in the demonstration cow farm

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Drainage and ground water quality change in the territory of large cow barn after construction of manure pad and slurry reservoir has been analysed in the demonstration farm in Lithuania. It was determined that nutrient leaching from the territory of the cow barn has decreased substantially after construction of manure storage. The results of the water quality measurements have been successfully used for calculation of nitrogen and phosphorus type specific concentration and load to surface and ground waters per animal unit with proper installed manure storage and without.