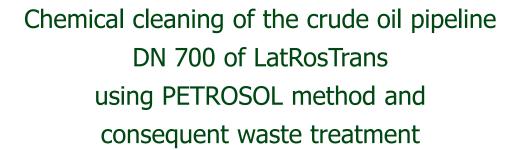


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LIMEK Plus, Ltd.







SUPPLIER (PETROSOL Solution waste treatment)



GENERAL SUPPLIER



SUPPLIER (PETROSOL agent laboratory background)







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Successful application of PETROSOL agent in the pipeline cleaning project in Latvia in 2011 using the method developed by LIMEK and CEPS Companies



The first part of pipeline was cleaned up within four days, 4/5 - 7/5/2011 by 110 m^3 of PETROSOL agent heavy solution and 2000 m^3 diluting and rinsing water were used for impurities removal.

On the place of pipeline drainage two reservoirs for liquid wastes capture and decontamination were built up.





Last rinsing water samples analysis results of non-polar extractive substances NES (0,56 mg NES/I; 0,42 mg NES/I; 0,26 mg NES/I) were several times lower than the limited concentration demanded for NES content in the last rinsing water (5 mg NES/I).





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LIMEK Plus, Ltd.

Liquid wastes were treated by chemical demulsification procedure, separation of organic phase and afterwards by bioremediation of organic compounds special bacterial suspension.















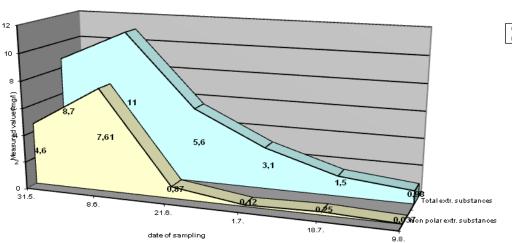
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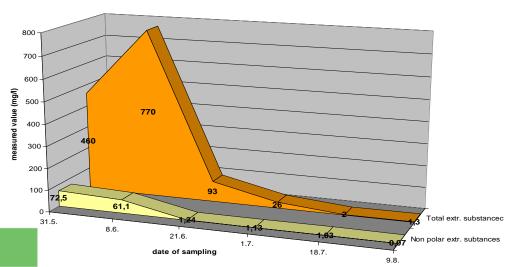
More than 2000 m³ of water contaminated by crude oil were treated in two reservoirs in the DZUKSTE centre by LIMEK Plus Company using bioremediation method developed by specialists from AQUA PLUS Company

DECONTAMINATION PROCESS - WATER RESERVOIR



n Non polar extr. substances

DECONTAMINATION PROCESS - PETROSOL RESERVOIR



□ Non polar extr. subtances
□ Total extr. substancec





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In the course of three weeks the method of phosphorus disposal was developed by specialists from AQUA PLUS and successfully tested directly in the DZUKSTE centre by LIMEK Plus team.







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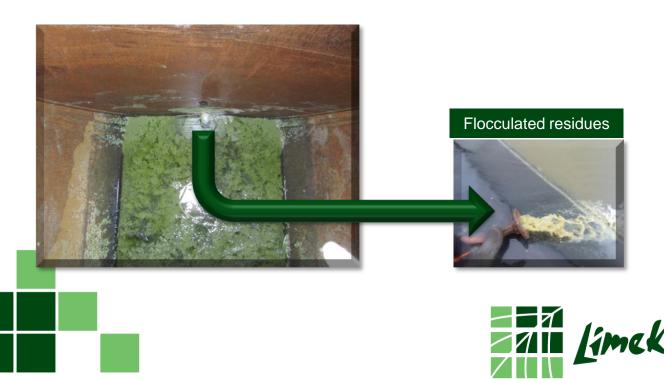
AQUA PLUS, Ltd.

LIMEK Plus, Ltd.

Final water treatment and phosphorus disposal



The whole volume of 2000 m³ of water from both of reservoirs was treated step by step in the 30 m³ steel tank.

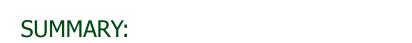




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LIMEK Plus, Ltd.



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•	total length of the cleaned pipeline section:	108 KM
•	tube diameter of the pipeline:	700 mm
•	total volume of hazardous wastes after	
	PETROSOL cleaning process:	2000 m ³
•	total quantity of extracted oil products:	15 tons
•	total volume of bacterial suspension:	80 m ³
•	efficiency of biological treatment process:	99,3%

 total volume of hazardous wastes after biological and chemical treatment processes didn't exceed: 30 m³ (representing 1,7% of total volume)

By using this technology it was possible, thanks to all partners, accomplish the results determined by the effort to minimize the final volume of hazardous wastes.

The above mentioned results enable to consider this technology as an environmental friendly one.



