



Remediation of former STYL factory

Pátek

c.t. Pátek at Poděbrady

History of locality contamination:

2003 – Risk analysis: chlorinated hydrocarbons found in the well at DIAKONIE (St-V) n.d. 595/29: CIU = 111 µg/L

2005 – Additional prospection: BP Consult, s.r.o. – contamination confirmed: St-IV, St-V, St-VI, St-XXV

2007 – 2008 – Monitoring of contamination: Pollution in St-IV, St-XXIII, XXV





**2011 – Additional prospection and risk analysis
update: recommended remediation limits,
contamination plume identified**

2011 – Remediation project

SO 1 – Extraction of contamination plume

SO 2 – Remediation of saturated zone

2013 – 2015 – Remediation of former STYL factory

SO 1 – Extraction of contamination plume



SO 1 – Extraction of contamination plume

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Extraction of 235 T of contaminated soil

17,5 kg CIU

44 % TCE

46 % PCE

10 % DCE + VC



SO 1 – Extraction of contamination plume

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Target limits suggested for contamination plume concentration of ClU in unsaturated zone:



SO 1

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SO 1 – Extraction of contamination plume

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SO 1 – Extraction of contamination plume

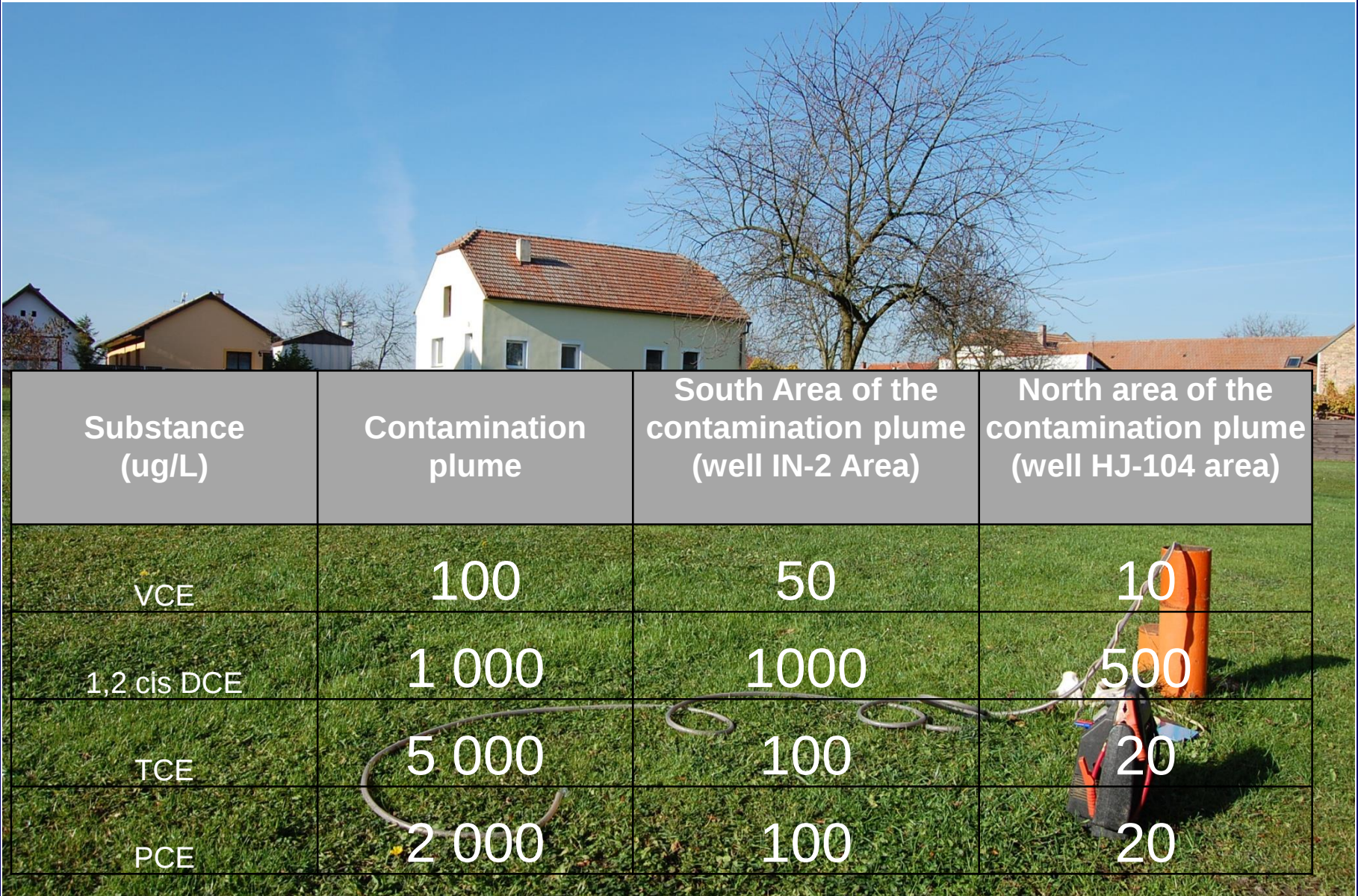
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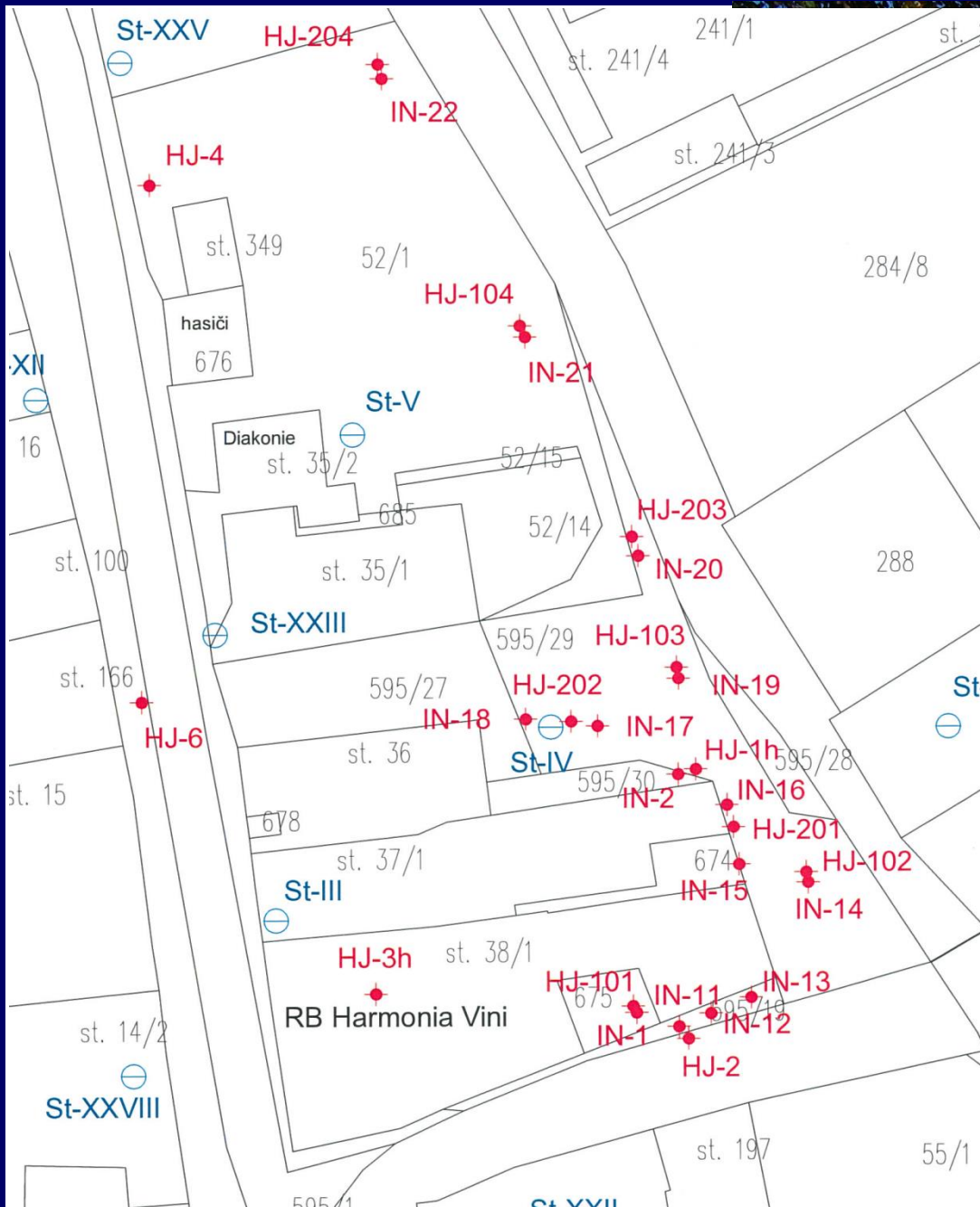
SO 1 – Groundwater in the construction pit

Construction Pit	X.2013	2590	236	243	33100	94600	323000
		856	57	54	7490	16200	3050
		6080	657	592	53500	128000	17900
		16100	1530	1410	124000	243000	58500
	XI.2013	3250	599	317	50800	82400	8610
	I.2014	916	211	72	13600	23600	3430

Target limits suggested for groundwater:



Substance (ug/L)	Contamination plume	South Area of the contamination plume (well IN-2 Area)	North area of the contamination plume (well HJ-104 area)
VCE	100	50	10
1,2 cis DCE	1 000	1000	500
TCE	5 000	100	20
PCE	2 000	100	20



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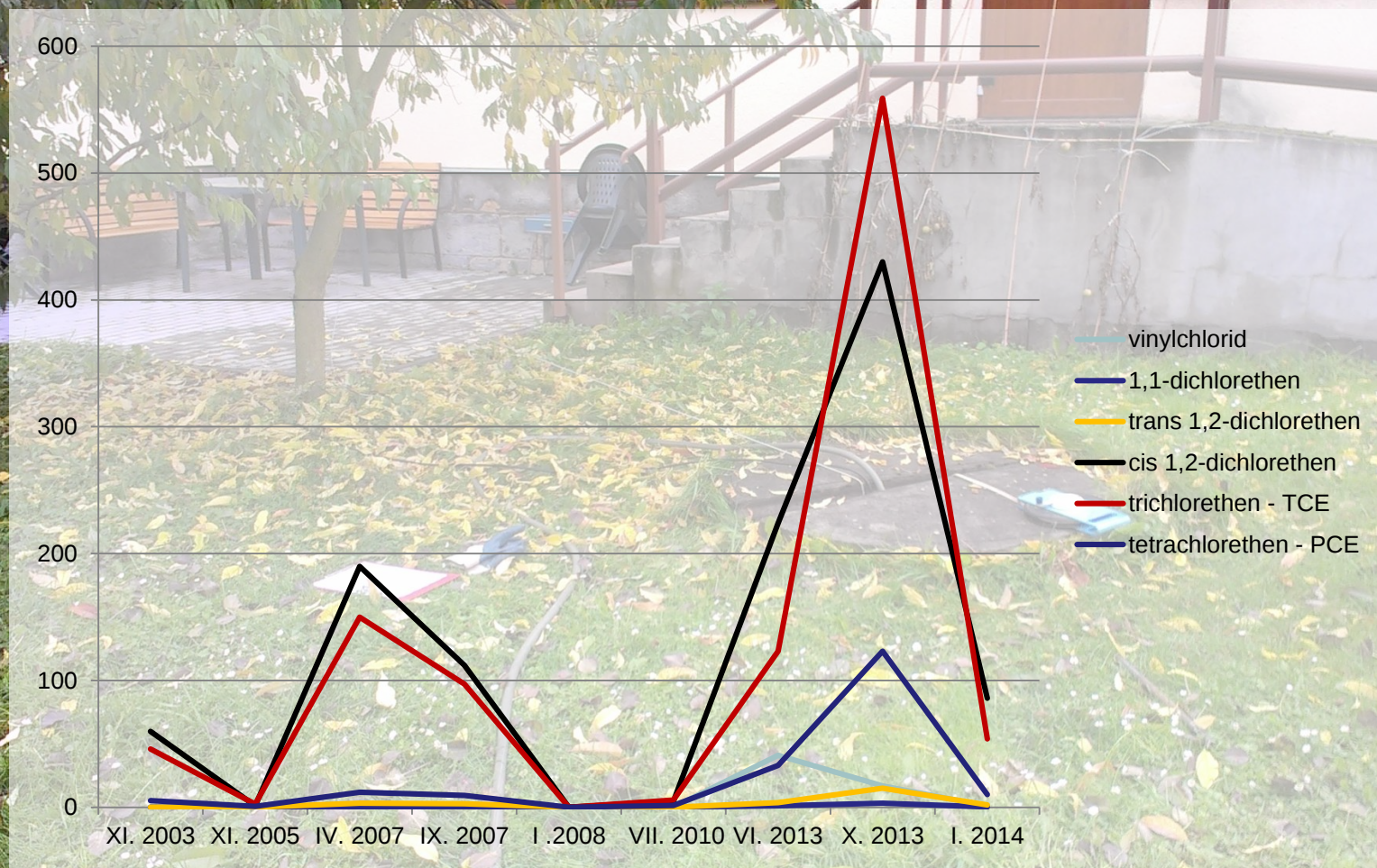
Marlstone (Upper Cretaceous – Turonian)







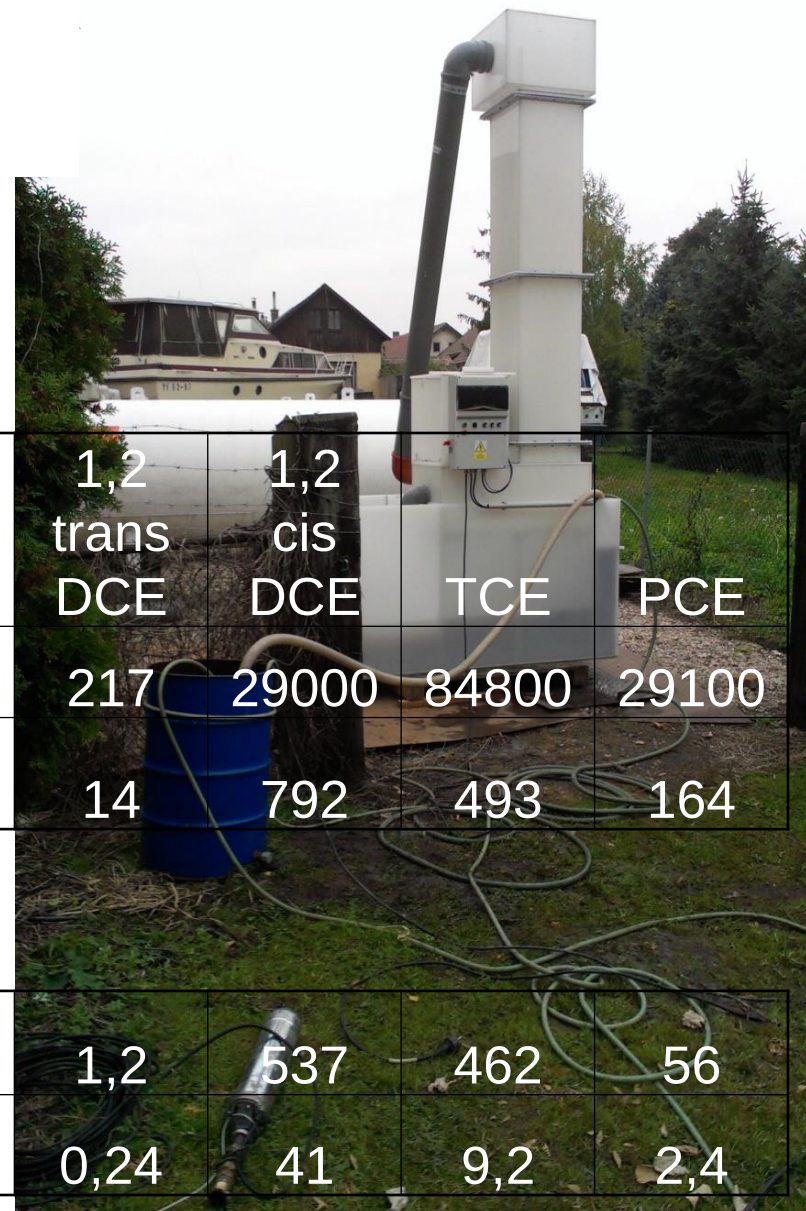
St-V (DIAKONIE)



CIU - stripping column

		VC	1,1 DCE
Before stripping	X. 2013	2230	204
	X. 2013	52	5,1

After stripping	X.2013	2,3	0,4
	X.2013	0,4	<0.1



1,2 trans DCE	1,2 cis DCE	TCE	PCE
217	29000	84800	29100
14	792	493	164
1,2	537	462	56
0,24	41	9,2	2,4

