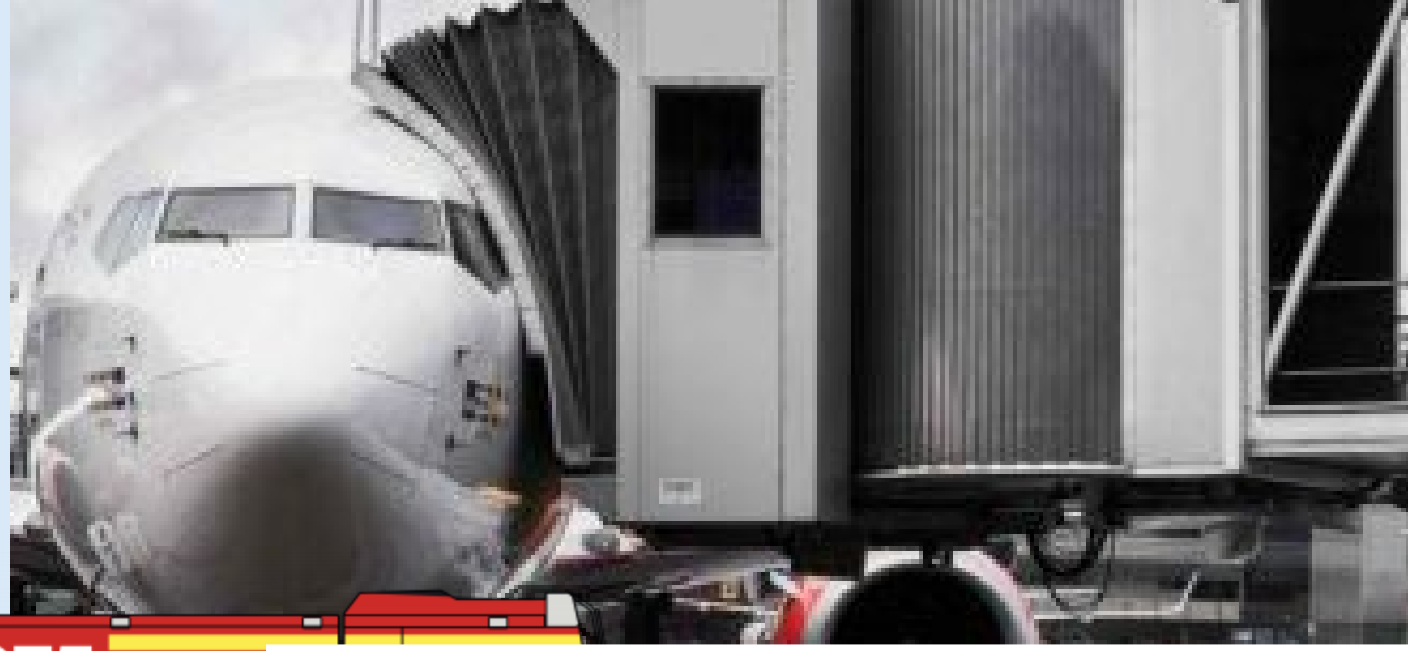
Swedavia Airports





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SUSTAINABLE WATERS EMPEREST

PFAS strategies at Swedish airports

Jonas Henriksson, PFAS specialist at IVL

ivl Swedish Environmental Research Institute

PFAS has been used up to 2008 at all airports

- Mainly for practise and training
- But also in real accidents
- PFAS can also be found around the fire brigade station



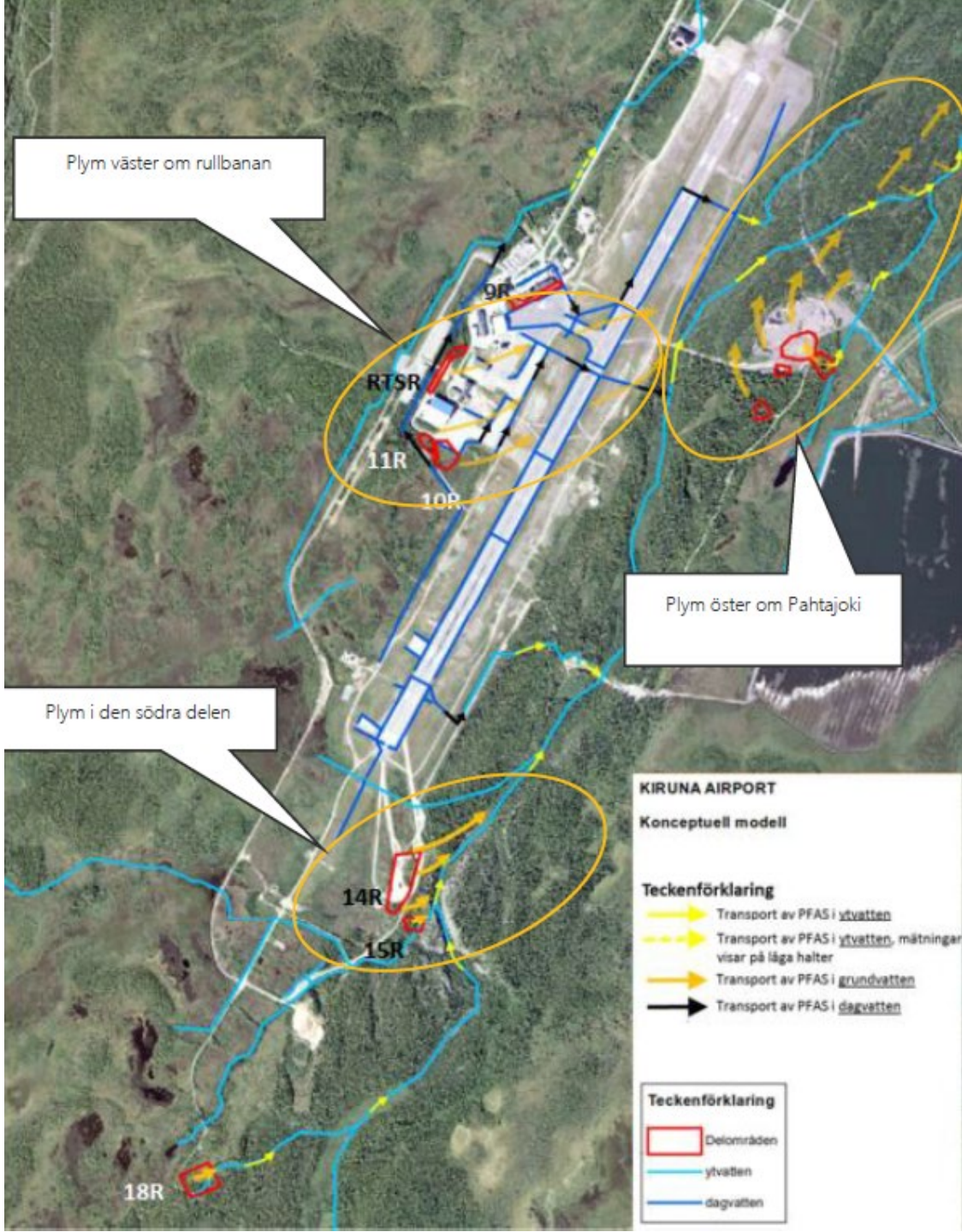




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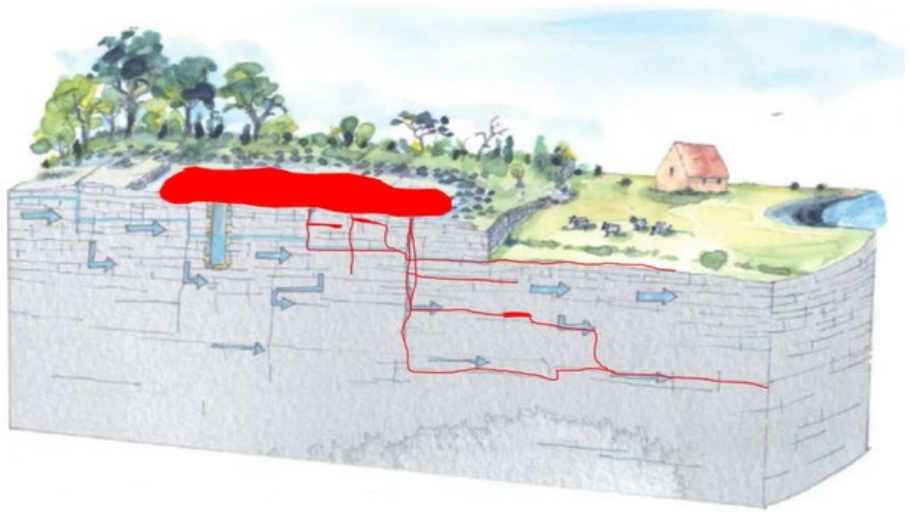
Three different areas with PFAS was found at this airport

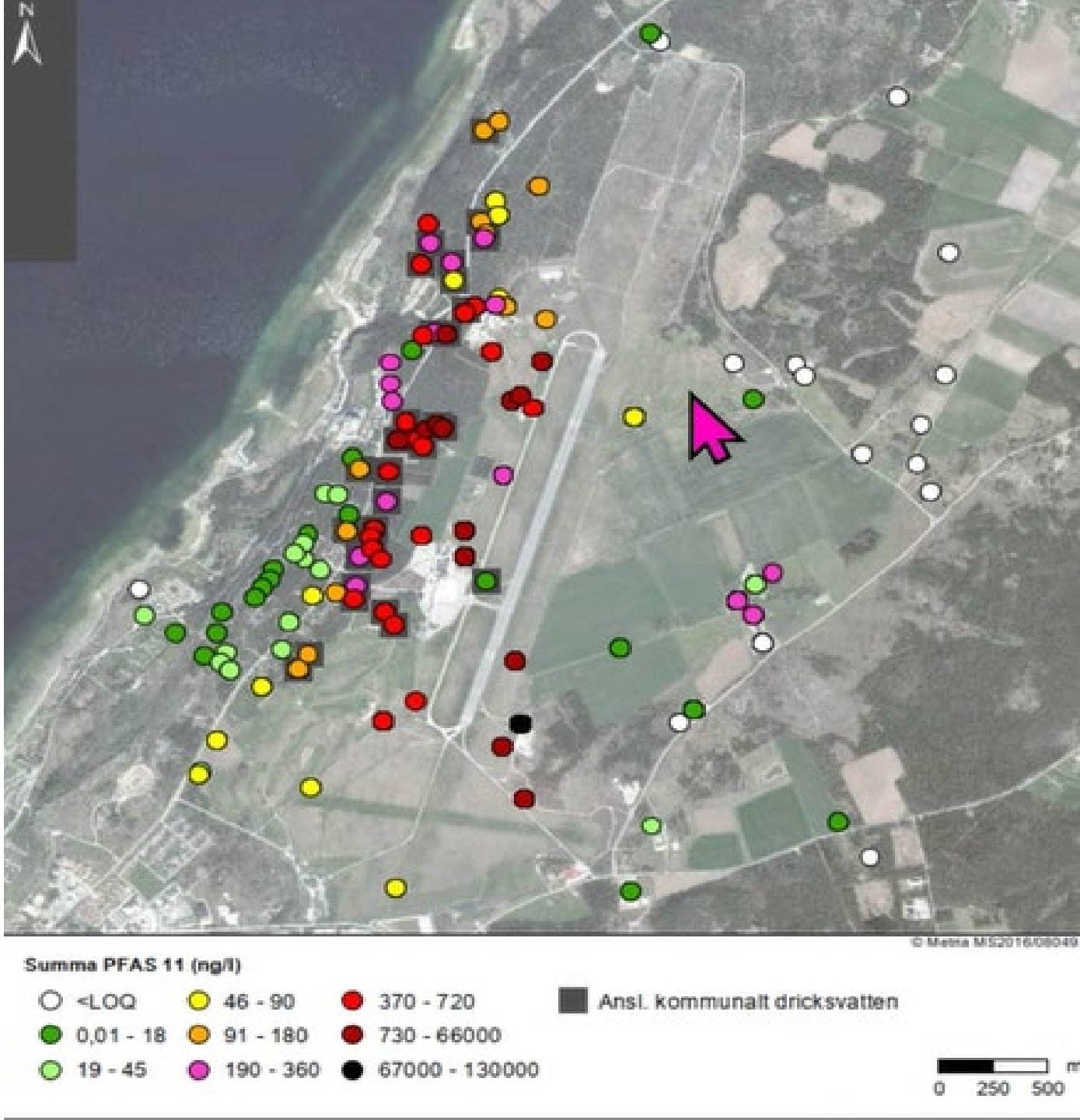
- Identification of concentrations
- Calculations of transports:
  - Surface water
  - Groundwater
- Risk assessments
- Goals
- Measures



PFAS11 in soil at Visby airport

- Very difficult geology and hydrogeology





Installed treatment facilities Ion-exchange at Arlanda ECT2 System M6

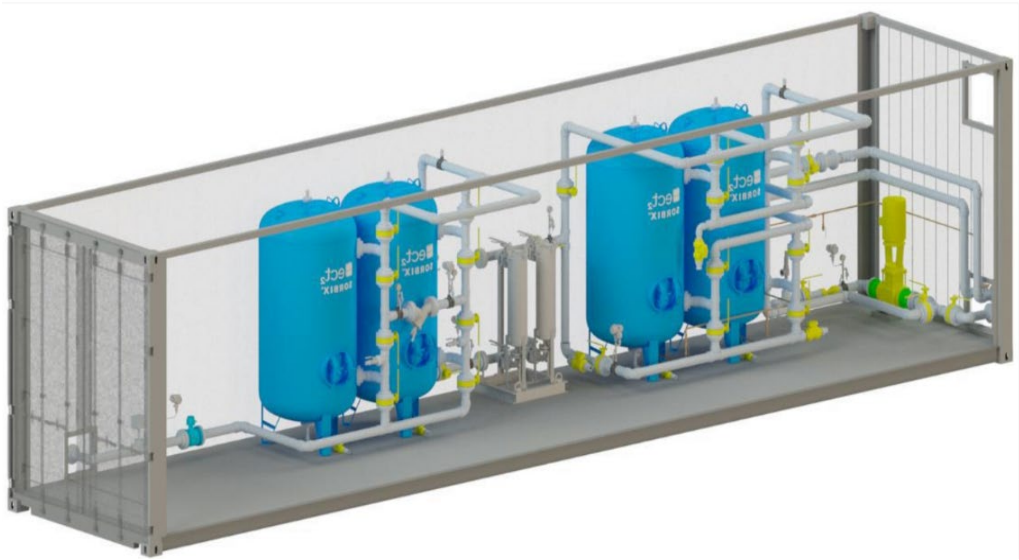




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PFAS11 concentration

- groundwater
- 17 m^3/h
- 4000 – 8000 ng PFAS11
- estimated 93% reduction





Vattenkvalitet (ng/l)	Min	Medel	Max
Perfluorbutansulfonat (PFBS)	120	150	180
Perfluorhexansulfonat (PFHxS)	360	824	1100
PFOS, total	1200	3600	4300
Perfluorpentansyra (PFPeA)	290	325	360
Perfluorhexansyra (PFHxA)	290	332	390
Perfluorheptansyra (PFHpA)	120	135	160
PFOA, total	320	384	460
Fluortelomersulfo. (6:2 FTS)	270	354	430
Perfluorbutansyra (PFBA)	76	88	100
Perfluornonansyra (PFNA)	8,40	9,25	11,00
Perfluordekansyra (PFDA)	0,63	0,84	1,10
Summa 11 PFAS	**3253**	**6206**	**7151**

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Thank you for your attention

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