



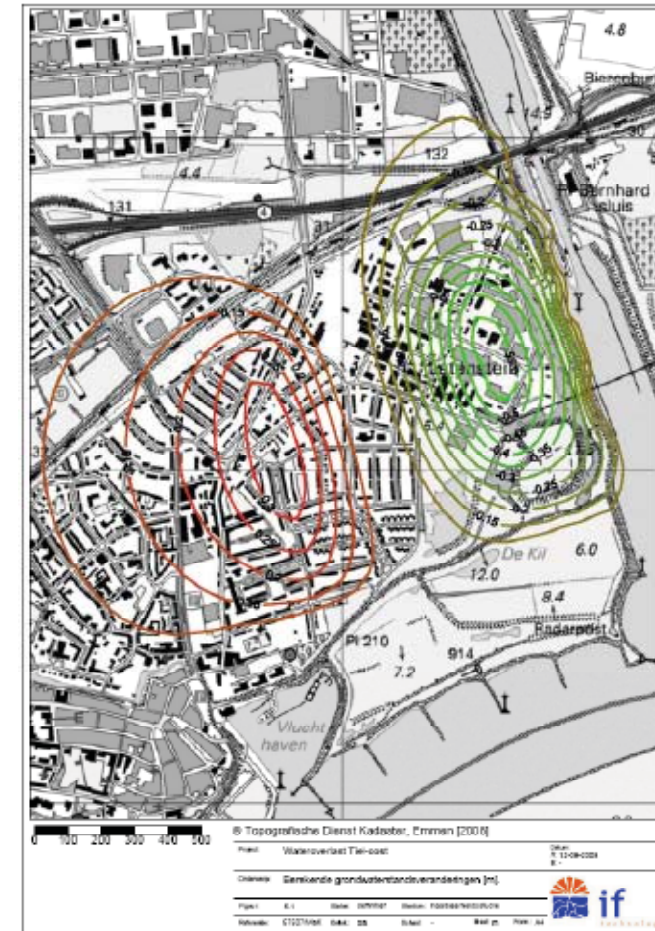
## APPRAISE RISKS AND OPPORTUNITIES

A changing climate introduces risks but also offers some positive opportunities. Their appraisal is based on the results of the vulnerability check and the projected climate change trends. An evaluation matrix is proposed that can be used to classify risks and identify opportunities.

The risks are evaluated for each receptor and the corresponding weather sensitivity. Depending on the climate variable, it is necessary to distinguish between summer and winter.

### **Spotlight:** Risks and opportunities in Tiel East

In the Dutch city of Tiel, local groundwater problems also create opportunities: By positioning sources and sinks for cold and heat storage in a smart way, local groundwater levels can be lowered in specific problem areas. This mechanism can also be used to tackle groundwater pollution. A business plan will give more insight into the cost efficiency of this combination of water and energy aspects. If possible, the system will be combined with residual heat from nearby factories. That way, climate adaptation will also serve economic and social purposes.



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*Opportunity for Tiel East: Usually, groundwater for cold and heat storage is pumped up and infiltrated in the same area. In Tiel East the groundwater levels are too high in some areas and comparatively low in others. By pumping up groundwater for cold and heat storage in the area where groundwater levels are too high (green lines) and infiltrating it in an area where the groundwater level is low (red lines), the groundwater levels can be counterbalanced.*